

FortiAnalyzer - Dataset Reference

VERSION 5.2.10

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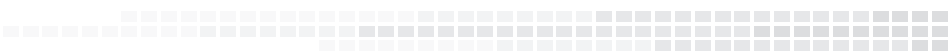


January 12, 2017

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05-529-364810-20170112

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Change Log

Date	Change Description
2017-01-12	Initial release.

Introduction

This document provides information about the various types of FortiAnalyzer datasets, which are created based on the FortiGate log SQL tables and messages. These datasets are used to create charts and reports.

It describes the procedure for creating custom datasets, and also lists the types of log tables used to assist in writing SQL queries to create the datasets.

Overview

FortiAnalyzer uses the PostgreSQL and remote MySQL databases to store the log data generated by the FortiGate.

To create a chart based on the FortiGate logs in a local or remote database, you can use either the predefined datasets, or create your own custom datasets by querying the logs in the SQL database in FortiAnalyzer.

Understanding Datasets and Macros

FortiAnalyzer datasets are collections of log messages from monitored devices.

If the FortiAnalyzer unit is not receiving data from a device, or logging is not enabled under *System > Config > SQL Database*, it does not create log tables for that device.

Charts in FortiAnalyzer are generated based on the datasets. To create a chart, you can use either the predefined datasets, or create your own custom datasets by querying the log messages in the SQL database on the FortiAnalyzer unit. Both predefined and custom datasets can be cloned, but only custom datasets can be deleted. You can also view the SQL query for a dataset, and test the query against specific devices or log arrays.

You can create custom reports that contain macros created based on predefined and custom datasets. Macros are used to dynamically display the device log data as text in a report. They can be embedded within a text field of a paragraph in a report layout in XML format. Macros display a single value, such as a user name, highest session count, or highest bandwidth etc.

To view and configure datasets, go to *Reports > Advanced > Dataset* in the left navigation pane of the web-based manager. For more information, refer to the *Dataset* section in the *FortiAnalyzer Administration Guide*.

To view and configure macros, go to *Reports > Macro Library* in the left navigation pane of the web-based manager. For more information, refer to the *Macro Library* section in the *FortiAnalyzer Administration Guide*.

Creating Custom Datasets

This section describes the procedure to create datasets in the FortiAnalyzer GUI.

To create a custom dataset in the GUI:

1. Go to *Reports > Advanced > Dataset*.
2. Click *Create New*.

New Dataset

Name: Application Category

Log Type: Traffic

Query: select app_group_name(app) as app_group, sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) as bandwidth, sum(coalesce(rcvbyte, 0)) as traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out, count(*) as sessions from \$log where \$filter and \$(LOCAL_EXCLUSIVE) and nullifna(app) is not null group by app_group having sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0))>0 order by bandwidth desc

Test query with specified devices and time period

Devices: All Devices (selected), Specify (disabled), Click to add...

Time Period: Other

Start Date: 00:00

End Date: 00:00

Test

OK Cancel

The following table describes the GUI fields of the *New Dataset* dialog box.

Field	Description
Name	Name of the data set.
Log Type	Log Type to be used for the data set. \$log is used in the SQL query to represent the log type you select, and it is run against all tables of this type.
Devices	Select All Devices to create datasets on all of FortiAnalyzer managed devices or select Specify to choose a device on which you want to create the dataset.
Query	Enter the SQL query syntax to retrieve the log data you want from the SQL database.
Time Period	Select to use logs from a time frame. Select Other to define a custom time frame by selecting the Start Time and End Time . \$filter is used in the SQL query "where" clause to limit the results to the period you select.
Test	Click to test whether or not the SQL query is successful.

3. Configure the following, then click **OK**.

Testing SQL Query

You can verify the SQL query that you used to create the custom dataset before saving the dataset configuration by testing and viewing the query results.

To test an SQL query:

Click **Test** after entering the SQL query in the *New Dataset* dialog box. The query results are displayed. If the query is not successful, an error message appears in the results pane.

Examples of SQL Query Errors

Here are some example error messages and possible causes:

Syntax Errors

You have an error in your SQL syntax (remote/MySQL)

or

ERROR: syntax error at or near... (local/PostgreSQL)

- Check that SQL keywords are spelled correctly, and that the query is well-formed.
- Table and column names are demarked by grave accent (`) characters. Single (') and double (") quotation marks will cause an error.

No data is covered.

- The query is correctly formed, but no data has been logged for the log type. Check that you have configured the FortiAnalyzer unit to save that log type. Under *System > Config > SQL Database*, ensure that the log type is checked.

Connection Errors

If well formed queries do not produce results, and logging is turned on for the log type, there may be a database configuration problem with the remote database.

Ensure that:

- MySQL is running and using the default port3306.
- You have created an empty database and a user with create permissions for the database.

Here is an example of creating a new MySQL database named fazlogs, and adding a user for the database:

```
#Mysql -u root -p
mysql> Create database fazlogs;
mysql> Grant all privileges on fazlogs.* to 'fazlogger'@'*'
identified by 'fazpassword';
mysql> Grant all privileges on fazlogs.* to
'fazlogger'@'localhost' identified by 'fazpassword';
```

For more information about using SQL queries for creating datasets, refer to the *FortiAnalyzer™ and FortiGate™ Version 4.0 MR2 SQL Log Database Query Technical Note* in the Fortinet Documentation Library at docs.fortinet.com.

Examples of Custom Datasets

The following examples illustrate how to create custom datasets using the FortiAnalyzer GUI. Once created, you can use the datasets to configure chart templates under *Reports > Chart Library*.

Example 1: Distribution of applications by type in the last 24 hours

GUI Procedure

1. Go to *Reports > Advanced > Dataset*.
2. Click *Create New*.
3. Select *Application Control* under *Log Type*.
4. Enter a name, such as "*apps_type_24hrs*".
5. Select *Last N Hours* under *Time Period*.
6. Enter the query:

```
SELECT app_type, COUNT( * ) AS totalnum
FROM $log
WHERE $filter
AND app_type IS NOT NULL
GROUP BY app_type
ORDER BY totalnum DESC
```

Notes:

- *\$filter* restricts the query result to the time period specified; in this case, it's the past 24 hours.
- *\$log* queries all application control logs
- The application control module classifies each firewall session in *app_type*. One firewall session may be classified to multiple *app_types*. For example, an HTTP session can be classified to: HTTP, Facebook, etc.
- Some *app/app_types* may not be able to detected, then the '*app_type*' field may be null or 'N/A'. These will be ignored by this query.

The result is ordered by the total session number of the same *app_type*. The most frequent *app_types* will appear first.

Example 2: Top 100 applications by bandwidth in the last 24 hours

GUI Procedure

1. Go to *Reports > Advanced > Dataset*.
2. Click *Create New*.
3. Select *Application Control* under *Log Type*.
4. Enter a name, such as *"top_100_aps_24hrs"*.
5. Select *Last N Hours* under *Time Period*.
6. Enter the query:

```
SELECT (
  TIMESTAMP - TIMESTAMP %3600
) AS hourstamp, app, service, SUM( sent + rcvd ) AS volume
FROM $log
WHERE $filter and app IS NOT NULL
GROUP BY app
ORDER BY volume DESC
LIMIT 100
```

Notes:

- (timestamp-timestamp%3600) as hourstamp - this calculates an "hourstamp" to indicate bandwidth per hour.
- SUM(sent + rcvd) AS volume - this calculates the total sent and received bytes.
- ORDER BY volume DESC - this orders the results by descending volume (largest volume first).
- LIMIT 100 - this lists only the top 100 applications.

Log Database Tables

The FortiAnalyzer and FortiGate units create SQL database tables to record log data. These tables are generated for high log rate and low log rate devices.

The naming convention for the log SQL tables is:

High log rate:

```
<devtype>]-ADOM[<admon_oid><log-type>-timestamp]
```

and

Low log rate:

```
<devtype>ADOM<adom_oid>-ALLELSE-<log-type>-<timestamp>-<delta-timestamp>
```

where the device type can be any one of the following:

Example

```
FGTADOM141-tlog-0, FGTADOM141-ALLELSE-tlog-0-0
<devtype> : "FGT/FMG/FML/FCT/FWB/FCH/FAZ/SYS/..."
```

```

{"FGT", "FortiGate"},
{"FMG", "FortiManager"},
{"SYS", "Syslog"},
{"FCT", "FortiClient"},
{"FML", "FortiMail"},
{"FWB", "FortiWeb"},
{"FCH", "FortiCache"},
{"FAZ", "FortiAnalyzer"},
{"FSA", "FortiSandbox"},

```

Log Type	SQL Table Type	Description
Traffic	tlog	The traffic log records all traffic to and through the FortiGate interface.
Event	elog	The event log records management and activity events. For example, when an administrator logs in or logs out of the web-based manager.
Antivirus	vlog	The antivirus log records virus incidents in Web, FTP, and email traffic.
Webfilter	wlog	The web filter log records HTTP FortiGate log rating errors including web content blocking actions that the FortiGate unit performs.
Attack	attack_log	The attack log records attacks that are detected and prevented by the FortiGate unit.
Data Leak Prevention	dlog	The Data Leak Prevention log records log data that is considered sensitive and that should not be made public. This log also records data that a company does not want entering their network.
Application Control	rlog	The application control log records data detected by the FortiGate unit and the action taken against the network traffic depending on the application that is generating the traffic, for example, instant messaging software, such as MSN Messenger.
Spamfilter	spamfilter_log	The spam filter log records blocking of email address patterns and content in SMTP, IMAP, and POP3 traffic.
Content	clog	The content log records all network content that is transmitted through the network.
Netscan	nlog	The netscan log records data related to network security and scan.

Log Type	SQL Table Type	Description
Sniffer	xlog	The sniffer log records each packet raw data for traffic bottlenecks.
VOIP	plog	The VOIP log records detailed protocol specific logs for VOIP traffic.

To view all the tables created in a database, use the following commands:

- local (PostgreSQL) database: `SELECT * FROM pg_tables`
- remote (MySQL): `SHOW TABLES`

FortiAnalyzer and FortiGate logs also include log sub-types, which are types of log messages that are within the main log type. For example, in the event log type there are the subtype admin log messages.

For more information on FortiGate Log Types and Messages, refer to the FortiOS/FortiGate *Log Message Reference Guide* on the Fortinet Documentation Library at: docs.fortinet.com.

Log Type	Sub Type
traffic (Traffic Log)	<ul style="list-style-type: none"> • allowed – Policy allowed traffic • violation - Policy violation traffic • other
event (Event Log)	<p>For FortiGate devices:</p> <ul style="list-style-type: none"> • system – System activity event • ipsec – IPsec negotiation event • dhcp – DHCP service event • ppp – L2TP/PPTP/PPPoE service event • admin – admin event • ha – HA activity event • auth – Firewall authentication event • pattern – Pattern update event • alertemail – Alert email notifications • chassis – FortiGate-4000 and FortiGate-5000 series chassis event • sslvpn-user – SSL VPN user event • sslvpn-admin – SSL VPN administration event • sslvpn-session – SSL VPN session event • his-performance – performance statistics • vipssl – VIP SSL events • ldb-monitor – LDB monitor events
dlp (Data Leak Prevention)	<ul style="list-style-type: none"> • dlp – Data Leak Prevention

Log Type	Sub Type
app-crtl (Application Control Log)	<ul style="list-style-type: none">• app-crtl-all – All application control
virus (Antivirus Log)	<ul style="list-style-type: none">• infected – Virus infected• filename – Filename blocked• oversize – File oversized
webfilter (Web Filter Log)	<ul style="list-style-type: none">• content – content block• urlfilter – URL filter• FortiGuard block• FortiGuard allowed• FortiGuard error• ActiveX script filter• Cookie script filter• Applet script filter
ips (Attack Log)	<ul style="list-style-type: none">• signature – Attack signature• anomaly – Attack anomaly
email filter (Spam Filter Log)	<ul style="list-style-type: none">• SMTP• POP3• IMAP

Dataset Reference List

The following tables list the available predefined data sets reported by FortiAnalyzer. For documentation and technical support reference purposes, these tables contain the dataset names, SQL query syntax for each dataset, and the log category of the dataset.

Dataset Name	Description	Log Category
Traffic-Bandwidth-Summary-Day-Of-Month	Traffic bandwidth timeline	traffic

```
select
    $flex_timescale as hodex,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out,
    sum(
        coalesce(rcvdbyte, 0)
    ) as traffic_in
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    hodex
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    hodex
```

Dataset Name	Description	Log Category
Session-Summary-Day-Of-Month	Number of session timeline	traffic

```
select
    $flex_timescale as hodex,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    hodex
order by
    hodex
```

Dataset Name	Description	Log Category
Top-Users-By-Bandwidth	Bandwidth application top users by bandwidth usage	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  user_src
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
Top-App-By-Bandwidth	Top applications by bandwidth usage	traffic

```

select
  app_group_name(app) as app_group,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(app) is not null

```

```

group by
  app_group
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
Top-User-Source-By-Sessions	Top user source by session count	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  user_src
order by
  sessions desc

```

Dataset Name	Description	Log Category
Top-App-By-Sessions	Top applications by session count	traffic

```

select
  app_group_name(app) as app_group,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(app) is not null
group by
  app_group
order by
  sessions desc

```

Dataset Name	Description	Log Category
Top-Destination-Addresses-By-Sessions	Top destinations by session count	traffic

```

select
  coalesce(
    nullifna(
      root_domain(hostname)
    ),

```



```

        ipstr(dstip)
    ) as domain,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    domain
order by
    sessions desc

```

Dataset Name	Description	Log Category
Top-Destination-Addresses-By-Bandwidth	Top destinations by bandwidth usage	traffic

```

select
    coalesce(
        nullifna(
            root_domain(hostname)
        ),
        ipstr(dstip)
    ) as domain,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth,
    sum(
        coalesce(rcvdbyte, 0)
    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and coalesce(
        nullifna(
            root_domain(hostname)
        ),
        ipstr(`dstip`)
    ) is not null
group by
    domain
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
DHCP-Summary-By-Port	Event top dhcp summary	event

```

drop
  table if exists pre_clt_list;
drop
  table if exists cur_clt_list;
drop
  table if exists allocated_ip; create temporary table pre_clt_list as ###(select concat
    (interface, '.', devid) as intf, mac from $log where $last3day_period $filter and
    logid_to_int(logid) = 26001 and dhcp_msg = 'Ack' group by interface, devid,
    mac)###; create temporary table cur_clt_list as ###(select concat(interface, '.',
    devid) as intf, mac from $log where $filter and logid_to_int(logid) = 26001 and
    dhcp_msg = 'Ack' group by interface, devid, mac)###; create temporary table
    allocated_ip as select distinct on (1) intf, cast(used*100.0/total as decimal
    (18,2)) as percent_of_allocated_ip from ###(select distinct on (1) concat
    (interface, '.', devid) as intf, used, total, itime from $log where $filter and
    logid_to_int(logid)=26003 and total>0 order by 1, itime desc)### t order by 1,
    itime desc; select t1.intf as interface, percent_of_allocated_ip, new_cli_count
    from allocated_ip t1 inner join (select intf, count(mac) as new_cli_count from cur_
    clt_list where not exists (select 1 from pre_clt_list where cur_clt_list.mac=pre_
    clt_list.mac) group by intf) t2 on t1.intf=t2.intf order by interface, percent_of_
    allocated_ip desc

```

Dataset Name	Description	Log Category
Top-Wifi-Client-By-Bandwidth	Traffic top WiFi client by bandwidth usage	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  srcssid,
  devtype,
  coalesce(
    nullifna(`srcname`),
    `srcmac`
  ) as hostname_mac,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and (
    srcssid is not null
    or dstssid is not null
  )
group by
  user_src,
  srcssid,
  devtype,
  hostname_mac
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0

```

```
order by
bandwidth desc
```

Dataset Name	Description	Log Category
Traffic-History-By-Active-User	Traffic history by active user	traffic

```
select
  hodex,
  count(
    distinct(user_src)
  ) as total_user
from
  ###(select $flex_timescale as hodex, coalesce(nullifna(`user`), nullifna(`unauthuser`),
    ipstr(`srcip`)) as user_src from $log where $filter and logid_to_int(logid) not in
    (4, 7, 14) group by hodex, user_src order by hodex)### t group by hodex order by
  hodex
```

Dataset Name	Description	Log Category
Top-Allowed-Websites-By-Requests	UTM top allowed web sites by request	traffic

```
select
  hostname,
  catdesc,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and utmevent in (
    'webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter'
  )
  and hostname is not null
  and (
    utmaction not in ('block', 'blocked')
    or action != 'deny'
  )
group by
  hostname,
  catdesc
order by
  requests desc
```

Dataset Name	Description	Log Category
Top-50-Websites-By-Bandwidth	Webfilter top allowed web sites by bandwidth usage	webfilter

```
select
  domain,
  string_agg(distinct catdesc, ', ') as agg_catdesc,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
```

```
###(select coalesce(nullifna(hostname), ipstr(`dstip`)) as domain, catdesc, sum
(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0)) as bandwidth, sum(coalesce(rcvbyte,
0)) as traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out from $log-traffic
where $filter and logid_to_int(logid) not in (4, 7, 14) and utmaction!='blocked'
and ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter',
'banned-word', 'web-content', 'command-block', 'script-filter'))) group by domain,
catdesc having sum(coalesce(sentbyte, 0)+coalesce(rcvbyte, 0))>0 order by
bandwidth desc)### t group by domain, catdesc order by bandwidth desc
```

Dataset Name	Description	Log Category
Top-Blocked-Websites	UTM top blocked web sites by request	traffic

```
select
  hostname,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and utmevent in (
    'webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter'
  )
  and hostname is not null
  and (
    utmaction in ('block', 'blocked')
    or action = 'deny'
  )
group by
  hostname
order by
  requests desc
```

Dataset Name	Description	Log Category
Top-Web-Users-By-Request	UTM top web users by request	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  devtype,
  srcname,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and utmevent in (
    'webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter'
  )
```

```

group by
    user_src,
    devtype,
    srcname
order by
    requests desc

```

Dataset Name	Description	Log Category
Top-Allowed-WebSites-By-Bandwidth	UTM top allowed websites by bandwidth usage	traffic

```

select
    appid,
    hostname,
    catdesc,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth,
    sum(
        coalesce(rcvdbyte, 0)
    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and utmevent in (
        'webfilter', 'banned-word', 'web-content',
        'command-block', 'script-filter'
    )
    and hostname is not null
group by
    appid,
    hostname,
    catdesc
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
Top-Blocked-Web-Users	UTM top blocked web users	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    devtype,
    srcname,

```

```

count(*) as requests
from
$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and utmevent in (
'webfilter', 'banned-word', 'web-content',
'command-block', 'script-filter'
)
and (
utmaction in ('block', 'blocked')
or action = 'deny'
)
group by
user_src,
devtype,
srcname
order by
requests desc

```

Dataset Name	Description	Log Category
Top-20-Web-Users-By-Bandwidth	Webfilter top web users by bandwidth usage	webfilter

```

select
user_src,
sum(bandwidth) as bandwidth,
sum(traffic_in) as traffic_in,
sum(traffic_out) as traffic_out
from
###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
src, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce
(rcvdbyte, 0)) as traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out from $log-
traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52
and countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word',
'web-content', 'command-block', 'script-filter')))) group by user_src having sum
(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 order by bandwidth desc)### t group
by user_src order by bandwidth desc

```

Dataset Name	Description	Log Category
Top-Web-Users-By-Bandwidth	UTM top web users by bandwidth usage	traffic

```

select
coalesce(
nullifna(`user`),
nullifna(`unauthuser`),
ipstr(`srcip`)
) as user_src,
devtype,
srcname,
sum(
coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
) as bandwidth,
sum(
coalesce(rcvdbyte, 0)

```

```

    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and utmevent in (
        'webfilter', 'banned-word', 'web-content',
        'command-block', 'script-filter'
    )
group by
    user_src,
    devtype,
    srcname
having
    sum(
        coalesce(sentbyte, 0) + coalesce(rcvdbyte, 0)
    ) > 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
Top-Video-Streaming-Websites-By-Bandwidth	UTM top video streaming websites by bandwidth usage	traffic

```

select
    appid,
    hostname,
    sum(
        coalesce(sentbyte, 0) + coalesce(rcvdbyte, 0)
    ) as bandwidth,
    sum(
        coalesce(rcvdbyte, 0)
    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and catdesc in ('Streaming Media and Download')
group by
    appid,
    hostname
having
    sum(
        coalesce(sentbyte, 0) + coalesce(rcvdbyte, 0)
    ) > 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
Top-Email-Senders-By-Count	Default top email senders by count	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and service in (
    'smtp', 'SMTP', '25/tcp', '587/tcp',
    'smtps', 'SMTPS', '465/tcp'
  )
group by
  user_src
order by
  requests desc

```

Dataset Name	Description	Log Category
Top-Email-Receivers-By-Count	Default email top receivers by count	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as requests
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and service in (
    'pop3', 'POP3', '110/tcp', 'imap',
    'IMAP', '143/tcp', 'imaps', 'IMAPS',
    '993/tcp', 'pop3s', 'POP3S', '995/tcp'
  )
group by
  user_src
order by
  requests desc

```

Dataset Name	Description	Log Category
Top-Email-Senders-By-Bandwidth	Default email top senders by bandwidth usage	traffic

```

select

```



```

    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and service in (
        'smtp', 'SMTP', '25/tcp', '587/tcp',
        'smtps', 'SMTPS', '465/tcp'
    )
group by
    user_src
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
Top-Email-Receivers-By-Bandwidth	Default email top receivers by bandwidth usage	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and service in (
        'pop3', 'POP3', '110/tcp', 'imap',
        'IMAP', '143/tcp', 'imaps', 'IMAPS',
        '993/tcp', 'pop3s', 'POP3S', '995/tcp'
    )
group by
    user_src
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
Top-Malware-By-Name	UTM top virus	virus

```

select
  virus,
  max(virusid) as virusid,
  (
    case when virus like 'Riskware%' then 'Spyware' when virus like 'Adware%' then
      'Adware' else 'Virus' end
  ) as malware_type,
  sum(totalnum) as totalnum
from
  (
    ###(select virus, 0 as virusid, count(*) as totalnum from $log-traffic where $filter
      and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and virus is
      not null group by virus, virusid order by totalnum desc)### union all ###(select
      virus, virusid, count(*) as totalnum from $log-virus where $filter and
      (eventtype is null or logver>=52) and nullifna(virus) is not null group by
      virus, virusid order by totalnum desc)###) t group by virus, malware_type order
      by totalnum desc

```

Dataset Name	Description	Log Category
Top-Virus-By-Name	UTM top virus	virus

```

select
  virus,
  max(virusid) as virusid,
  (
    case when virus like 'Riskware%' then 'Spyware' when virus like 'Adware%' then
      'Adware' else 'Virus' end
  ) as malware_type,
  sum(totalnum) as totalnum
from
  (
    ###(select virus, 0 as virusid, count(*) as totalnum from $log-traffic where $filter
      and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and virus is
      not null group by virus, virusid order by totalnum desc)### union all ###(select
      virus, virusid, count(*) as totalnum from $log-virus where $filter and
      (eventtype is null or logver>=52) and nullifna(virus) is not null group by
      virus, virusid order by totalnum desc)###) t group by virus, malware_type order
      by totalnum desc

```

Dataset Name	Description	Log Category
Top-Virus-Victim	UTM top virus user	traffic

```

select
  user_src,
  sum(totalnum) as totalnum
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
      user_src, count(*) as totalnum from $log-traffic where $filter and logid_to_int
      (logid) not in (4, 7, 14) and utmevent is not null and virus is not null group
      by user_src order by totalnum desc)### union all ###(select coalesce(nullifna

```

```
(`user`), ipstr(`srcip`)) as user_src, count(*) as totalnum from $log-virus
where $filter and (eventtype is null or logver>=52) and nullifna(virus) is not
null group by user_src order by totalnum desc)###) t group by user_src order by
totalnum desc
```

Dataset Name	Description	Log Category
Top-Attack-Source	UTM top attack source	attack

```
select
  coalesce(
    nullifna(`user`),
    ipstr(`srcip`)
  ) as user_src,
  count(*) as totalnum
from
  $log
where
  $filter
group by
  user_src
order by
  totalnum desc
```

Dataset Name	Description	Log Category
Top-Attack-Victim	UTM top attack dest	attack

```
select
  dstip,
  count(*) as totalnum
from
  $log
where
  $filter
  and dstip is not null
group by
  dstip
order by
  totalnum desc
```

Dataset Name	Description	Log Category
Top-Static-IPSEC-Tunnels-By-Bandwidth	Top static IPsec tunnels by bandwidth usage	event

```
select
  vpn_name,
  sum(traffic_in + traffic_out) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      remip,
```

```

tunnelid,
vpn_name,
max(traffic_in) as traffic_in,
max(traffic_out) as traffic_out
from
###(select devid, vd, remip, vpn_trim(vpntunnel) as vpn_name, tunnelid, max
(coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvdbyte, 0)) as
traffic_in from $log where $filter and subtype='vpn' and tunneltype like
'ipsec%' and (tunnelip is null or (tunnelip='0.0.0.0' and logver is null))
and action in ('tunnel-stats', 'tunnel-down') and tunnelid is not null group
by devid, vd, remip, vpn_name, tunnelid)### t group by devid, vd, remip, vpn_
name, tunnelid) tt group by vpn_name having sum(traffic_in+traffic_out)>0
order by bandwidth desc

```

Dataset Name	Description	Log Category
Top-SSL-VPN-Tunnel-Users-By-Bandwidth	Top SSL VPN tunnel users by bandwidth usage	event

```

select
  user_src,
  remip as remote_ip,
  from_dtime(
    min(s_time)
  ) as start_time,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      remip,
      user_src,
      tunnelid,
      min(s_time) as s_time,
      max(e_time) as e_time,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)- min(min_traffic_out) end
      ) as bandwidth,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_traffic_in)- min(min_traffic_in) end
      ) as traffic_in,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_traffic_out)- min(min_traffic_out) end
      ) as traffic_out
    from
      ###(select devid, vd, remip, coalesce(nullifna(`user`), ipstr(`remip`)) as user_src, tunnelid, min(coalesce(dtime, 0)) as s_time, max(coalesce(dtime, 0)) as e_time, min(coalesce(sentbyte, 0)) as min_traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce(sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_in from $log where $filter and subtype='vpn' and tunneltype='ssl-tunnel' and action in ('tunnel-stats',

```

```
'tunnel-down', 'tunnel-up') and coalesce(nullifna(`user`), ipstr(`remip`)) is
not null and tunnelid is not null group by devid, vd, user_src, remip,
tunnelid)### t group by devid, vd, user_src, remip, tunnelid) tt group by
user_src, remote_ip having sum(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
Top-Dial-Up-IPSEC-Tunnels-By-Band-width	Top dial up IPsec tunnels by bandwidth usage	event

```
select
  vpn_name,
  sum(traffic_out + traffic_in) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      tunnelid,
      remip,
      vpn_name,
      max(traffic_in) as traffic_in,
      max(traffic_out) as traffic_out
    from
      ###(select devid, vd, remip, vpn_trim(vpntunnel) as vpn_name, tunnelid, max
        (coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvdbyte, 0)) as
        traffic_in from $log where $filter and nullifna(vpntunnel) is not null and
        subtype='vpn' and tunneltype like 'ipsec%' and not (tunnelip is null or
        (tunnelip='0.0.0.0' and logver is null)) and action in ('tunnel-stats',
        'tunnel-down') and tunnelid is not null group by devid, vd, remip, vpn_name,
        tunnelid)### t group by devid, vd, remip, vpn_name, tunnelid) tt group by
        vpn_name having sum(traffic_out+traffic_in)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
Top-Dial-Up-IPSEC-Users-By-Band-width	Top dial up IPsec users by bandwidth usage	event

```
select
  coalesce(
    xauthuser_agg,
    user_agg,
    ipstr(`remip`)
  ) as user_src,
  remip,
  from_dtime(
    min(s_time)
  ) as start_time,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
```

```

string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
string_agg(distinct user_agg, ' ') as user_agg,
remip,
tunnelid,
min(s_time) as s_time,
max(e_time) as e_time,
(
    case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)- min(min_traffic_out) end
) as bandwidth,
(
    case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_traffic_in)- min(min_traffic_in) end
) as traffic_in,
(
    case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_traffic_out)- min(min_traffic_out) end
) as traffic_out
from
    ###(select devid, vd, nullifna(`xauthuser`) as xauthuser_agg, nullifna(`user`) as user_agg, remip, tunnelid, min(coalesce(dtime, 0)) as s_time, max(coalesce(dtime, 0)) as e_time, min(coalesce(sentbyte, 0)) as min_traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce(sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_in from $log where $filter and subtype='vpn' and tunneltype like 'ipsec%' and not (tunnelip is null or (tunnelip='0.0.0.0' and logver is null)) and action in ('tunnel-stats', 'tunnel-down', 'tunnel-up') and tunnelid is not null group by devid, vd, xauthuser_agg, user_agg, remip, tunnelid)### t group by devid, vd, remip, tunnelid) tt group by user_src, remip having sum(bandwidth)>0 order by bandwidth desc

```

Dataset Name	Description	Log Category
Top-Dial-Up-IPSEC-Users-By-Duration	Top dial up IPsec users by duration	event

```

select
    coalesce(
        xauthuser_agg,
        user_agg,
        ipstr(`remip`)
    ) as user_src,
from_dtime(
    min(s_time)
) as start_time,
sum(duration) as duration,
sum(bandwidth) as bandwidth,
sum(traffic_in) as traffic_in,
sum(traffic_out) as traffic_out
from
    (
        select
            devid,
            vd,
            remip,
            string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
            string_agg(distinct user_agg, ' ') as user_agg,
            tunnelid,

```

```

min(s_time) as s_time,
max(e_time) as e_time,
(
    case when min(s_time)= max(e_time) then max(max_duration) else max(max_
        duration)- min(min_duration) end
) as duration,
(
    case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_
        out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)-
        min(min_traffic_out) end
) as bandwidth,
(
    case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_
        traffic_in)- min(min_traffic_in) end
) as traffic_in,
(
    case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_
        traffic_out)- min(min_traffic_out) end
) as traffic_out
from
###(select devid, vd, remip, nullifna(`xauthuser`) as xauthuser_agg, nullifna
    (`user`) as user_agg, tunnelid, min(coalesce(dtime, 0)) as s_time, max
    (coalesce(dtime, 0)) as e_time, max(coalesce(duration,0)) as max_duration,
    min(coalesce(duration,0)) as min_duration, min(coalesce(sentbyte, 0)) as min_
    traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce
    (sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_
    in from $log where $filter and subtype='vpn' and tunneltype like 'ipsec%' and
    not (tunnelip is null or (tunnelip='0.0.0.0' and logver is null)) and action
    in ('tunnel-stats', 'tunnel-down', 'tunnel-up') and tunnelid is not null
    group by devid, vd, remip, xauthuser_agg, user_agg, tunnelid order by
    tunnelid)### t group by devid, vd, remip, tunnelid) tt group by user_src
    having sum(bandwidth)>0 order by duration desc

```

Dataset Name	Description	Log Category
Top-SSL-VPN-Web-Mode-Users-By-Bandwidth	Top SSL VPN web mode users by bandwidth usage	event

```

select
    user_src,
    remip as remote_ip,
    from_dtime(
        min(s_time)
    ) as start_time,
    sum(bandwidth) as bandwidth,
    sum(traffic_in) as traffic_in,
    sum(traffic_out) as traffic_out
from
(
    select
        devid,
        vd,
        user_src,
        remip,
        tunnelid,
        min(s_time) as s_time,
        max(e_time) as e_time,
        (

```

```

        case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)- min(min_traffic_out) end
    ) as bandwidth,
    (
        case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_traffic_in)- min(min_traffic_in) end
    ) as traffic_in,
    (
        case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_traffic_out)- min(min_traffic_out) end
    ) as traffic_out
from
    ###(select devid, vd, coalesce(nullifna(`user`), ipstr(`remip`)) as user_src, remip, tunnelid, min(coalesce(dtime, 0)) as s_time, max(coalesce(dtime, 0)) as e_time, min(coalesce(sentbyte, 0)) as min_traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce(sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_in from $log where $filter and subtype='vpn' and tunneltype='ssl-web' and action in ('tunnel-stats', 'tunnel-down', 'tunnel-up') and coalesce(nullifna(`user`), ipstr(`remip`)) is not null and tunnelid is not null group by devid, vd, user_src, remip, tunnelid)### t group by devid, vd, user_src, remip, tunnelid) tt group by user_src, remote_ip having sum(bandwidth)>0 order by bandwidth desc

```

Dataset Name	Description	Log Category
Top-SSL-VPN-Users-By-Duration	Top SSL VPN users by duration	event

```

select
    user_src,
    tunneltype,
    sum(duration) as duration,
    sum(traffic_out + traffic_in) as bandwidth,
    sum(traffic_in) as traffic_in,
    sum(traffic_out) as traffic_out
from
    (
        select
            devid,
            vd,
            remip,
            user_src,
            tunneltype,
            tunnelid,
            max(duration) as duration,
            max(traffic_in) as traffic_in,
            max(traffic_out) as traffic_out
        from
            ###(select devid, vd, remip, coalesce(nullifna(`user`), ipstr(`remip`)) as user_src, tunnelid, tunneltype, max(coalesce(duration, 0)) as duration, max(coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvdbyte, 0)) as traffic_in from $log where $filter and subtype='vpn' and tunneltype like 'ssl%' and action in ('tunnel-stats', 'tunnel-down') and coalesce(nullifna(`user`), ipstr(`remip`)) is not null and tunnelid is not null group by devid, vd, remip, user_src, tunnelid, tunneltype)### t group by devid, vd, remip, user_src, tunnelid, tunneltype) tt group by user_src, tunneltype having sum(traffic_out+traffic_in)>0 order by duration desc

```


Dataset Name	Description	Log Category
vpn-Top-Dial-Up-VPN-Users-By-Duration	Top dial up VPN users by duration	event

```

select
  coalesce(
    xauthuser_agg,
    user_agg,
    ipstr(`remip`)
  ) as user_src,
  t_type as tunneltype,
  from_dtime(
    min(s_time)
  ) as start_time,
  sum(duration) as duration,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      remip,
      string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
      string_agg(distinct user_agg, ' ') as user_agg,
      t_type,
      tunnelid,
      min(s_time) as s_time,
      max(e_time) as e_time,
      (
        case when min(s_time)= max(e_time) then max(max_duration) else max(max_
          duration)- min(min_duration) end
      ) as duration,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_
          out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)-
          min(min_traffic_out) end
      ) as bandwidth,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_
          traffic_in)- min(min_traffic_in) end
      ) as traffic_in,
      (
        case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_
          traffic_out)- min(min_traffic_out) end
      ) as traffic_out
    from
      ###(select devid, vd, remip, nullifna(`xauthuser`) as xauthuser_agg, nullifna
        (`user`) as user_agg, (case when tunneltype like 'ipsec%' then 'ipsec' else
          tunneltype end) as t_type, tunnelid, min(coalesce(dtime, 0)) as s_time, max
          (coalesce(dtime, 0)) as e_time, max(coalesce(duration,0)) as max_duration,
          min(coalesce(duration,0)) as min_duration, min(coalesce(sentbyte, 0)) as min_
          traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce
          (sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_
          in from $log where $filter and subtype='vpn' and (tunneltype like 'ssl%' or

```

```
(tunneltype like 'ipsec%' and not (tunnelip is null or (tunnelip='0.0.0.0'
and logver is null)))) and action in ('tunnel-stats', 'tunnel-down', 'tunnel-
up') and tunnelid is not null group by devid, vd, remip, xauthuser_agg, user_
agg, t_type, tunnelid)### t group by devid, vd, remip, t_type, tunnelid) tt
group by user_src, tunneltype having sum(bandwidth)>0 order by duration desc
```

Dataset Name	Description	Log Category
vpn-User-Login-history	VPN user login history	event

```
select
  hodex,
  sum(total_num) as total_num
from
  (
    select
      hodex,
      devid,
      vd,
      remip,
      tunnelid,
      sum(tunnelup) as total_num,
      max(traffic_in) as traffic_in,
      max(traffic_out) as traffic_out
    from
      ###(select $flex_timescale as hodex, devid, vd, remip, tunnelid, (case when
      action='tunnel-up' then 1 else 0 end) as tunnelup, max(coalesce(sentbyte, 0))
      as traffic_out, max(coalesce(rcvbyte, 0)) as traffic_in from $log where
      $filter and subtype='vpn' and (tunneltype like 'ipsec%' or tunneltype like
      'ssl%') and action in ('tunnel-up', 'tunnel-stats', 'tunnel-down') and
      tunnelid is not null group by hodex, action, devid, vd, remip, tunnelid)### t
      group by hodex, devid, vd, remip, tunnelid having max(tunnelup) > 0 and max
      (traffic_in)+max(traffic_out)>0 )tt group by hodex order by total_num desc
```

Dataset Name	Description	Log Category
vpn-Failed-Login-Attempts	VPN failed logins	event

```
select
  f_user,
  tunneltype,
  sum(total_num) as total_num
from
  ###(select coalesce(nullifna(`xauthuser`), `user`) as f_user, tunneltype, count(*) as
  total_num from $log where $filter and subtype='vpn' and (tunneltype='ipsec' or left
  (tunneltype, 3)='ssl') and action in ('ssl-login-fail', 'ipsec-login-fail') and
  coalesce(nullifna(`xauthuser`), nullifna(`user`)) is not null group by f_user,
  tunneltype)### t group by f_user, tunneltype order by total_num desc
```

Dataset Name	Description	Log Category
vpn-Authenticated-Logins	VPN authenticated logins	event

```
select
  coalesce(
    xauthuser_agg,
    user_agg,
    ipstr(`remip`)
```

```

    ) as f_user,
    t_type as tunneltype,
    from_dtime(
        min(s_time)
    ) as start_time,
    sum(total_num) as total_num,
    sum(duration) as duration
from
(
    select
        string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
        string_agg(distinct user_agg, ' ') as user_agg,
        t_type,
        devid,
        vd,
        remip,
        tunnelid,
        min(s_time) as s_time,
        max(e_time) as e_time,
        (
            case when min(s_time)= max(e_time) then max(max_duration) else max(max_
                duration)- min(min_duration) end
        ) as duration,
        (
            case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_
                out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)-
                min(min_traffic_out) end
        ) as bandwidth,
        (
            case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_
                traffic_in)- min(min_traffic_in) end
        ) as traffic_in,
        (
            case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_
                traffic_out)- min(min_traffic_out) end
        ) as traffic_out,
        sum(tunnelup) as total_num
    from
        ###(select nullifna(`xauthuser`) as xauthuser_agg, nullifna(`user`) as user_agg,
            devid, vd, remip, (case when tunneltype like 'ipsec%' then 'ipsec' else
                tunneltype end) as t_type, tunnelid, sum((case when action='tunnel-up' then 1
                else 0 end)) as tunnelup, min(coalesce(dtime, 0)) as s_time, max(coalesce
                (dtime, 0)) as e_time, max(coalesce(duration,0)) as max_duration, min
                (coalesce(duration,0)) as min_duration, min(coalesce(sentbyte, 0)) as min_
                traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce
                (sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_
                in from $log where $filter and subtype='vpn' and (tunneltype like 'ipsec%' or
                tunneltype like 'ssl%') and action in ('tunnel-up', 'tunnel-stats', 'tunnel-
                down') and tunnelid is not null group by xauthuser_agg, user_agg, devid, vd,
                remip, t_type, tunnelid)### t group by t_type, devid, vd, remip, tunnelid
            having max(tunnelup) > 0) tt group by f_user, tunneltype having sum
                (bandwidth) > 0 order by total_num desc

```

Dataset Name	Description	Log Category
vpn-Traffic-Usage-Trend-VPN-Summary	VPN traffic usage trend	event

```
select
```

```

        hodex,
        sum(ssl_traffic_out + ssl_traffic_in) as ssl_bandwidth,
        sum(
            ipsec_traffic_out + ipsec_traffic_in
        ) as ipsec_bandwidth
    from
        (
            select
                hodex,
                devid,
                vd,
                remip,
                tunnelid,
                (
                    case when t_type like 'ssl%' then max(traffic_in) else 0 end
                ) as ssl_traffic_in,
                (
                    case when t_type like 'ssl%' then max(traffic_out) else 0 end
                ) as ssl_traffic_out,
                (
                    case when t_type like 'ipsec%' then max(traffic_in) else 0 end
                ) as ipsec_traffic_in,
                (
                    case when t_type like 'ipsec%' then max(traffic_out) else 0 end
                ) as ipsec_traffic_out
            from
                ###(select $flex_timescale as hodex, devid, vd, remip, tunnelid, (case when
                    tunneltype like 'ipsec%' then 'ipsec' else tunneltype end) as t_type, max
                    (coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvdbyte, 0)) as
                    traffic_in from $log where $filter and subtype='vpn' and (tunneltype like
                    'ipsec%' or tunneltype like 'ssl%') and action in ('tunnel-stats', 'tunnel-
                    down') and tunnelid is not null group by hodex, devid, vd, remip, t_type,
                    tunnelid)### t group by hodex, devid, t_type, vd, remip, tunnelid ) tt group
                    by hodex order by hodex

```

Dataset Name	Description	Log Category
Top-S2S-IPSEC-Tunnels-By-Bandwidth-and-Availability	Top S2S IPsec tunnels by bandwidth usage and avail	event

```

select
    vpntunnel,
    tunneltype,
    sum(traffic_out) as traffic_out,
    sum(traffic_in) as traffic_in,
    sum(bandwidth) as bandwidth,
    sum(uptime) as uptime
from
    (
        select
            vpntunnel,
            tunneltype,
            tunnelid,
            devid,
            vd,
            sum(sent_end - sent_beg) as traffic_out,
            sum(rcvd_end - rcvd_beg) as traffic_in,
            sum(

```

```

        sent_end - sent_beg + rcvd_end - rcvd_beg
    ) as bandwidth,
    sum(duration_end - duration_beg) as uptime
from
    ###(select tunnelid, tunneltype, vpntunnel, devid, vd, min(coalesce(sentbyte, 0))
        as sent_beg, max(coalesce(sentbyte, 0)) as sent_end, min(coalesce(rcvdbyte,
        0)) as rcvd_beg, max(coalesce(rcvdbyte, 0)) as rcvd_end, min(coalesce
        (duration, 0)) as duration_beg, max(coalesce(duration, 0)) as duration_end
    from $log where $filter and subtype='vpn' and action='tunnel-stats' and
    tunneltype like 'ipsec%' and (tunnelip is null or (tunnelip='0.0.0.0' and
    logver is null)) and nullifna(`user`) is null and tunnelid is not null group
    by tunnelid, tunneltype, vpntunnel, devid, vd order by tunnelid)### t group
    by vpntunnel, tunneltype, tunnelid, devid, vd order by bandwidth desc) t
    group by vpntunnel, tunneltype order by bandwidth desc

```

Dataset Name	Description	Log Category
Top-Dialup-IPSEC-By-Bandwidth-and-Availability	Top dialup IPsec users by bandwidth usage and avail	event

```

select
    user_src,
    remip,
    sum(traffic_out) as traffic_out,
    sum(traffic_in) as traffic_in,
    sum(bandwidth) as bandwidth,
    sum(uptime) as uptime
from
    (
        select
            user_src,
            remip,
            tunnelid,
            devid,
            vd,
            sum(sent_end - sent_beg) as traffic_out,
            sum(rcvd_end - rcvd_beg) as traffic_in,
            sum(
                sent_end - sent_beg + rcvd_end - rcvd_beg
            ) as bandwidth,
            sum(duration_end - duration_beg) as uptime
        from
            ###(select tunnelid, coalesce(nullifna(`xauthuser`), nullifna(`user`)), ipstr
                (`remip`)) as user_src, remip, devid, vd, min(coalesce(sentbyte, 0)) as sent_
                beg, max(coalesce(sentbyte, 0)) as sent_end, min(coalesce(rcvdbyte, 0)) as
                rcvd_beg, max(coalesce(rcvdbyte, 0)) as rcvd_end, min(coalesce(duration, 0))
                as duration_beg, max(coalesce(duration, 0)) as duration_end from $log where
                $filter and subtype='vpn' and action='tunnel-stats' and tunneltype like
                'ipsec%' and not (tunnelip is null or (tunnelip='0.0.0.0' and logver is
                null)) and tunnelid is not null group by tunnelid, user_src, remip, devid, vd
                order by tunnelid)### t group by user_src, remip, tunnelid, devid, vd order
                by bandwidth desc) t group by user_src, remip order by bandwidth desc
    )

```

Dataset Name	Description	Log Category
Top-SSL-Tunnel-Mode-By-Bandwidth-and-Availability	Top SSL tunnel users by bandwidth usage and avail	event

```

select
  user_src,
  remote_ip,
  sum(traffic_out) as traffic_out,
  sum(traffic_in) as traffic_in,
  sum(bandwidth) as bandwidth,
  sum(uptime) as uptime
from
  (
    select
      user_src,
      remip as remote_ip,
      tunnelid,
      devid,
      vd,
      sum(sent_end - sent_beg) as traffic_out,
      sum(rcvd_end - rcvd_beg) as traffic_in,
      sum(
        sent_end - sent_beg + rcvd_end - rcvd_beg
      ) as bandwidth,
      sum(duration_end - duration_beg) as uptime
    from
      ###(select tunnelid, coalesce(nullifna(`user`), ipstr(`remip`)) as user_src,
        remip, devid, vd, min(coalesce(sentbyte, 0)) as sent_beg, max(coalesce(
          sentbyte, 0)) as sent_end, min(coalesce(rcvdbyte, 0)) as rcvd_beg, max(
            coalesce(rcvdbyte, 0)) as rcvd_end, min(coalesce(duration, 0)) as duration_
            beg, max(coalesce(duration, 0)) as duration_end from $log where $filter and
            subtype='vpn' and action='tunnel-stats' and tunneltype in ('ssl-tunnel',
              'ssl') and coalesce(nullifna(`user`), ipstr(`remip`)) is not null and
            tunnelid is not null group by tunnelid, user_src, remip, devid, vd order by
            tunnelid)### t group by user_src, remote_ip, tunnelid, devid, vd order by
            bandwidth desc) t group by user_src, remote_ip order by bandwidth desc
  )

```

Dataset Name	Description	Log Category
Top-SSL-Web-Mode-By-Bandwidth-and-Availability	Top SSL web users by bandwidth usage and avail	event

```

select
  user_src,
  remote_ip,
  sum(traffic_out) as traffic_out,
  sum(traffic_in) as traffic_in,
  sum(bandwidth) as bandwidth,
  sum(uptime) as uptime
from
  (
    select
      user_src,
      remip as remote_ip,
      tunnelid,
      devid,
      vd,
      sum(sent_end - sent_beg) as traffic_out,
      sum(rcvd_end - rcvd_beg) as traffic_in,
      sum(
        sent_end - sent_beg + rcvd_end - rcvd_beg
      ) as bandwidth,

```

```

sum(duration_end - duration_beg) as uptime
from
###(select tunnelid, coalesce(nullifna(`user`), ipstr(`remip`)) as user_src,
remip, devid, vd, min(coalesce(sentbyte, 0)) as sent_beg, max(coalesce
(sentbyte, 0)) as sent_end, min(coalesce(rcvdbyte, 0)) as rcvd_beg, max
(coalesce(rcvdbyte, 0)) as rcvd_end, min(coalesce(duration, 0)) as duration_
beg, max(coalesce(duration, 0)) as duration_end from $log where $filter and
subtype='vpn' and action='tunnel-stats' and tunneltype='ssl-web' and coalesce
(nullifna(`user`), ipstr(`remip`)) is not null and tunnelid is not null group
by tunnelid, user_src, remip, devid, vd order by tunnelid)### t group by
user_src, remote_ip, tunnelid, devid, vd having sum(sent_end-sent_beg+rcvd_
end-rcvd_beg)>0 order by bandwidth desc) t group by user_src, remote_ip order
by bandwidth desc

```

Dataset Name	Description	Log Category
Admin-Login-Summary	Event admin login summary	event

```

select
`user` as f_user,
ui,
sum(
case when logid_to_int(logid)= 32001 then 1 else 0 end
) as total_num,
sum(
case when logid_to_int(logid)= 32003 then duration else 0 end
) as total_duration,
count(state) as total_change
from
$log
where
$filter
and nullifna(`user`) is not null
and logid_to_int(logid) in (32001, 32003)
group by
f_user,
ui
having
sum(
case when logid_to_int(logid)= 32001 then 1 else 0 end
)> 0
order by
total_num desc

```

Dataset Name	Description	Log Category
Admin-Login-Summary-By-Date	Event admin login summary by date	event

```

select
$flex_timescale as dom,
sum(
case when logid_to_int(logid)= 32001 then 1 else 0 end
) as total_num,
count(state) as total_change
from
$log
where
$filter

```

```

        and nullifna(`user`) is not null
        and logid_to_int(logid) in (32001, 32003)
    group by
        dom
    having
        sum(
            case when logid_to_int(logid)= 32001 then 1 else 0 end
        )> 0
    order by
        dom

```

Dataset Name	Description	Log Category
Admin-Failed-Login-Summary	Event admin failed login summary	event

```

select
    `user` as f_user,
    ui,
    count(status) as total_failed
from
    $log
where
    $filter
    and nullifna(`user`) is not null
    and logid_to_int(logid) = 32002
group by
    ui,
    f_user
order by
    total_failed desc

```

Dataset Name	Description	Log Category
System-Summary-By-Severity	Event system summary by severity	event

```

select
    (
        case when level in ('critical', 'alert', 'emergency') then 'Critical' when level =
            'error' then 'High' when level = 'warning' then 'Medium' when level = 'notice'
            then 'Low' else 'Info' end
    ) as severity,
    count(*) as total_num
from
    $log
where
    $filter
    and subtype = 'system'
group by
    severity
order by
    total_num desc

```

Dataset Name	Description	Log Category
System-Summary-By-Date	Event system summary by date	event

```

select

```



```

$flex_timescale as dom,
sum(
  case when level in ('critical', 'alert', 'emergency') then 1 else 0 end
) as critical,
sum(
  case when level = 'error' then 1 else 0 end
) as high,
sum(
  case when level = 'warning' then 1 else 0 end
) as medium,
sum(
  case when level = 'notice' then 1 else 0 end
) as low,
sum(
  case when level = 'information'
    or level = 'debug' then 1 else 0 end
) as info
from
$log
where
$filter
and subtype = 'system'
group by
dom
order by
dom

```

Dataset Name	Description	Log Category
System-Critical-Severity-Events	Event system critical severity events	event

```

select
  msg_desc as msg,
  severity,
  sum(count) as counts
from
  ###(select coalesce(nullifna(logdesc), msg) as msg_desc, (case when level in
    ('critical', 'alert', 'emergency') then 'Critical' when level='error' then 'High'
    when level='warning' then 'Medium' when level='notice' then 'Low' else 'Info' end)
    as severity, count(*) as count from $log where $filter and subtype='system' group
    by msg_desc, severity order by count desc)### t where severity='Critical' group by
    msg, severity order by counts desc

```

Dataset Name	Description	Log Category
System-High-Severity-Events	Event system high severity events	event

```

select
  msg_desc as msg,
  severity,
  sum(count) as counts
from
  ###(select coalesce(nullifna(logdesc), msg) as msg_desc, (case when level in
    ('critical', 'alert', 'emergency') then 'Critical' when level='error' then 'High'
    when level='warning' then 'Medium' when level='notice' then 'Low' else 'Info' end)
    as severity, count(*) as count from $log where $filter and subtype='system' group
    by msg_desc, severity order by count desc)### t where severity='High' group by msg,
    severity order by counts desc

```

Dataset Name	Description	Log Category
System-Medium-Severity-Events	Event system medium severity events	event

```

select
    msg_desc as msg,
    severity,
    sum(count) as counts
from
    ###(select coalesce(nullifna(logdesc), msg) as msg_desc, (case when level in
        ('critical', 'alert', 'emergency') then 'Critical' when level='error' then 'High'
        when level='warning' then 'Medium' when level='notice' then 'Low' else 'Info' end)
        as severity, count(*) as count from $log where $filter and subtype='system' group
        by msg_desc, severity order by count desc)### t where severity='Medium' group by
        msg, severity order by counts desc

```

Dataset Name	Description	Log Category
utm-drilldown-Top-Traffic-Summary	UTM drilldown traffic summary	traffic

```

select
    srcip,
    srcname
from
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
        src, srcip, srcname from $log where $filter and logid_to_int(logid) not in (4, 7,
        14) group by user_src, srcip, srcname)### t where $filter-drilldown group by srcip,
        srcname

```

Dataset Name	Description	Log Category
utm-drilldown-Top-User-Destination	UTM drilldown top user destination	traffic

```

select
    appid,
    app,
    dstip,
    sum(sessions) as sessions,
    sum(bandwidth) as bandwidth
from
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
        src, appid, app, dstip, count(*) as sessions, sum(coalesce(sentbyte, 0)+coalesce
        (rcvdbyte, 0)) as bandwidth from $log where $filter and logid_to_int(logid) not in
        (4, 7, 14) and dstip is not null and nullifna(app) is not null group by user_src,
        appid, app, dstip having sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 order
        by bandwidth desc)### t where $filter-drilldown group by appid, app, dstip order by
        bandwidth desc

```

Dataset Name	Description	Log Category
utm-drilldown-Email-Senders-Summary	UTM drilldown email senders summary	traffic

```

select
    sum(requests) as requests,
    sum(bandwidth) as bandwidth
from

```

```
###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
src, sender, count(*) as requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))
as bandwidth from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and
service in ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') group
by user_src, sender order by requests desc)### t where $filter-drilldown
```

Dataset Name	Description	Log Category
utm-drilldown-Email-Receivers-Summary	UTM drilldown email receivers summary	traffic

```
select
  sum(requests) as requests,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
src, recipient, count(*) as requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
0)) as bandwidth from $log where $filter and logid_to_int(logid) not in (4, 7, 14)
and recipient is not null and service in ('pop3', 'POP3', '110/tcp', 'imap',
'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') group
by user_src, recipient order by requests desc)### t where $filter-drilldown
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Email-Recipients-By-Bandwidth	UTM drilldown top email recipients	traffic

```
select
  recipient,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
src, recipient, count(*) as requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
0)) as bandwidth from $log where $filter and logid_to_int(logid) not in (4, 7, 14)
and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp', 'imaps',
'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') group by user_src, recipient order
by requests desc)### t where $filter-drilldown and recipient is not null group by
recipient having sum(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Email-Senders-By-Bandwidth	UTM drilldown top email senders	traffic

```
select
  sender,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
src, sender, count(*) as requests, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))
as bandwidth from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and
service in ('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') group
by user_src, sender order by requests desc)### t where $filter-drilldown and sender
is not null group by sender having sum(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Allowed-Websites-By-Bandwidth	UTM drilldown top allowed web sites by bandwidth	traffic

```

select
  appid,
  hostname,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
    src, appid, hostname, (case when utmaction='blocked' then 1 else 0 end) as blocked,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic
    where $filter and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and
    countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-
    content', 'command-block', 'script-filter')) and hostname is not null group by
    user_src, appid, hostname, blocked order by bandwidth desc)### t where $filter-
    drilldown and blocked=0 group by appid, hostname order by bandwidth desc

```

Dataset Name	Description	Log Category
utm-drilldown-Top-Blocked-Websites-By-Request	UTM drilldown top blocked web sites by request	traffic

```

select
  appid,
  hostname,
  sum(requests) as requests
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
      user_src, appid, hostname, (case when utmaction='blocked' then 1 else 0 end) as
      blocked, count(*) as requests from $log-traffic where $filter and logid_to_int
      (logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-
      content', 'command-block', 'script-filter') and hostname is not null group by
      user_src, appid, hostname, blocked order by requests desc)### union all ###
      (select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, 0 as appid,
      hostname, (case when action='blocked' then 1 else 0 end) as blocked, count(*) as
      requests from $log-webfilter where $filter and (eventtype is null or logver>=52)
      and hostname is not null group by user_src, appid, hostname, blocked order by
      requests desc)###) t where $filter-drilldown and blocked=1 group by appid,
      hostname order by requests desc

```

Dataset Name	Description	Log Category
utm-drilldown-Top-Virus-By-Name	UTM drilldown top virus	traffic

```

select
  virus,
  sum(totalnum) as totalnum
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
      user_src, virus, count(*) as totalnum from $log-traffic where $filter and logid_
      to_int(logid) not in (4, 7, 14) and utmevent is not null and virus is not null
      group by user_src, virus order by totalnum desc)### union all ###(select
      coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, count(*) as

```

```
totalnum from $log-virus where $filter and (eventtype is null or logver>=52) and
nullifna(virus) is not null group by user_src, virus order by totalnum desc)###)
t where $filter-drilldown group by virus order by totalnum desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Attacks	UTM drilldown top attacks by name	attack

```
select
  attack,
  sum(attack_count) as attack_count
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, attack, count(*) as
  attack_count from $log where $filter and nullifna(attack) is not null group by
  user_src, attack order by attack_count desc)### t where $filter-drilldown group by
  attack order by attack_count desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-Vulnerability	UTM drilldown top vulnerability by name	netscan

```
select
  vuln,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, vuln, count(*) as
  totalnum from $log where $filter and action='vuln-detection' and vuln is not null
  group by user_src, vuln order by totalnum desc)### t where $filter-drilldown group
  by vuln order by totalnum desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-App-By-Bandwidth	UTM drilldown top applications by bandwidth usage	traffic

```
select
  appid,
  app,
  sum(bandwidth) as bandwidth
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
  src, appid, app, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth,
  count(*) as sessions from $log where $filter and logid_to_int(logid) not in (4, 7,
  14) and nullifna(app) is not null group by user_src, appid, app order by sessions
  desc)### t where $filter-drilldown group by appid, app having sum(bandwidth)>0
  order by bandwidth desc
```

Dataset Name	Description	Log Category
utm-drilldown-Top-App-By-Sessions	UTM drilldown top applications by session count	traffic

```
select
  appid,
  app,
  sum(sessions) as sessions
from
  ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as user_
  src, appid, app, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth,
  count(*) as sessions from $log where $filter and logid_to_int(logid) not in (4, 7,
```

14) and nullifna(app) is not null group by user_src, appid, app order by sessions desc)### t where \$filter-drilldown group by appid, app order by sessions desc

Dataset Name	Description	Log Category
Top5-Users-By-Bandwidth	UTM drilldown top users by bandwidth usage	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as dldn_user,
  count(*) as session,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  dldn_user
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc
```

Dataset Name	Description	Log Category
bandwidth-app-Top-App-By-Bandwidth-Sessions	Top applications by bandwidth usage	traffic

```
select
  app_group_name(app) as app_group,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  count(*) as sessions
from
  $log
where
```

```

$filter
and logid_to_int(logid) not in (4, 7, 14)
and nullifna(app) is not null
group by
  app_group
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
bandwidth-app-Category-By-Bandwidth	Application risk application usage by category	traffic

```

select
  appcat,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(appcat) is not null
group by
  appcat
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
bandwidth-app-Top-Users-By-Bandwidth-Sessions	Bandwidth application top users by bandwidth usage	traffic

```

select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out,
  count(*) as sessions
from
  $log
where
  $filter

```

```

    and logid_to_int(logid) not in (4, 7, 14)
group by
    user_src
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
bandwidth-app-Traffic-By-Active-User-Number	Bandwidth application traffic by active user number	traffic

```

select
    hodex,
    count(
        distinct(user_src)
    ) as total_user
from
    ###(select $flex_timescale as hodex, coalesce(nullifna(`user`), nullifna(`unauthuser`),
        ipstr(`srcip`)) as user_src from $log where $filter and logid_to_int(logid) not in
        (4, 7, 14) group by hodex, user_src order by hodex)### t group by hodex order by
        hodex

```

Dataset Name	Description	Log Category
bandwidth-app-Top-Dest-By-Bandwidth-Sessions	Bandwidth application top dest by bandwidth usage sessions	traffic

```

select
    coalesce(
        nullifna(
            root_domain(hostname)
        ),
        ipstr(`dstip`)
    ) as domain,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth,
    sum(
        coalesce(rcvdbyte, 0)
    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    appid,
    domain
having

```



```

sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
)> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
bandwidth-app-Top-Policies-By-Bandwidth-Sessions	Top policies by bandwidth and sessions	traffic

```

select
    coalesce(
        cast(poluuid as text),
        cast(policyid as text)
    ) as polid,
    sum(
        coalesce(rcvdbyte, 0) + coalesce(sentbyte, 0)
    ) as bandwidth,
    sum(
        coalesce(rcvdbyte, 0)
    ) as traffic_in,
    sum(
        coalesce(sentbyte, 0)
    ) as traffic_out,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    polid
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
bandwidth-app-Traffic-Statistics	Bandwidth application traffic statistics	traffic

```

drop
    table if exists stats_temp; create temporary table stats_temp(
        total_sessions varchar(255),
        total_bandwidth varchar(255),
        ave_session varchar(255),
        ave_bandwidth varchar(255),
        active_date varchar(255),
        total_users varchar(255),
        total_app varchar(255),
        total_dest varchar(255)
    ); insert into stats_temp (
        total_sessions, total_bandwidth,
        ave_session, ave_bandwidth
    )
select
    format_numeric_no_decimal(
        sum(sessions)
    )

```

```

) as total_sessions,
bandwidth_unit(
    sum(bandwidth)
) as total_bandwidth,
format_numeric_no_decimal(
    cast(
        sum(sessions)/ $days_num as decimal(18, 0)
    )
) as ave_session,
bandwidth_unit(
    cast(
        sum(bandwidth)/ $days_num as decimal(18, 0)
    )
) as ave_bandwidth
from
###(select count(*) as sessions, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as
bandwidth from $log where $filter and logid_to_int(logid) not in (4, 7, 14))### t;
update stats_temp set active_date=t1.dom from (select dom, sum(sessions) as
sessions from ###(select $DAY_OF_MONTH as dom, count(*) as sessions from $log where
$filter and logid_to_int(logid) not in (4, 7, 14) group by dom order by
sessions)### t group by dom order by sessions desc limit 1) as t1; update stats_
temp set total_users=t2.totalnum from (select format_numeric_no_decimal(count
(distinct(user_src))) as totalnum from ###(select distinct(coalesce(nullifna
(`user`), nullifna(`unauthuser`), ipstr(`srcip`))) as user_src from $log where
$filter and logid_to_int(logid) not in (4, 7, 14))### t ) as t2; update stats_temp
set total_app=t3.totalnum from (select format_numeric_no_decimal(count(distinct
(app_group_name(app)))) as totalnum from ###(select distinct(app_group_name(app))
as app from $log where $filter and logid_to_int(logid) not in (4, 7, 14))### t ) as
t3; update stats_temp set total_dest=t4.totalnum from (select format_numeric_no_
decimal(count(distinct(dstip))) as totalnum from ###(select distinct(dstip) as
dstip from $log where $filter and logid_to_int(logid) not in (4, 7, 14))### t ) as
t4; select 'Total Sessions' as summary, total_sessions as stats from stats_temp
union all select 'Total Bytes Transferred' as summary, total_bandwidth as stats
from stats_temp union all select 'Most Active Date By Sessions' as summary, active_
date as stats from stats_temp union all select 'Total Users' as summary, total_
users as stats from stats_temp union all select 'Total Applications' as summary,
total_app as stats from stats_temp union all select 'Total Destinations' as
summary, total_dest as stats from stats_temp union all select 'Average Sessions Per
Day' as summary, ave_session as stats from stats_temp union all select 'Average
Bytes Per Day' as summary, ave_bandwidth as stats from stats_temp

```

Dataset Name	Description	Log Category
Score-Summary-For-All-Users-Devices	Reputation score summary for all users devices	traffic

```

select
    $flex_timescale as hodex,
    sum(crscore % 65536) as scores
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and crscore is not null
group by
    hodex
having
    sum(crscore % 65536) > 0
order by

```

hosex

Dataset Name	Description	Log Category
Number-Of-Incidents-For-All-Users-Devices	Reputation number of incidents for all users devices	traffic

```

select
    $flex_timescale as hosex,
    sum(crsscore % 65536) as scores,
    count(*) as totalnum
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and crsscore is not null
group by
    hosex
having
    sum(crsscore % 65536) > 0
order by
    hosex

```

Dataset Name	Description	Log Category
Top-Users-By-Reputation-Scores	Reputation top users by scores	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    sum(crsscore % 65536) as scores
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and crsscore is not null
group by
    user_src
having
    sum(crsscore % 65536) > 0
order by
    scores desc

```

Dataset Name	Description	Log Category
Top-Devices-By-Reputation-Scores	Reputation top devices by scores	traffic

```

select
    devtype,
    coalesce(
        nullifna(`srcname`),
        nullifna(`srcmac`),

```

```

        ipstr(`srcip`)
    ) as dev_src,
    sum(crscore % 65536) as scores
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and crscore is not null
group by
    devtype,
    dev_src
having
    sum(crscore % 65536) > 0
order by
    scores desc

```

Dataset Name	Description	Log Category
Top-Users-With-Increased-Scores	Reputation top users with increased scores	traffic

```

drop
    table if exists prd1_usr_tbl;
drop
    table if exists prd2_usr_tbl;
create temporary table prd1_usr_tbl as ###(select
    coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as f_user, sum
    (crscore%65536) as sum_rp_score from $log where $pre_period $filter and logid_to_
    int(logid) not in (4, 7, 14) and crscore is not null group by f_user having sum
    (crscore%65536)>0 order by sum_rp_score desc)###; create temporary table prd2_usr_
    tbl as ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as f_user, sum(crscore%65536) as sum_rp_score from $log where $filter
    and logid_to_int(logid) not in (4, 7, 14) and crscore is not null group by f_user
    having sum(crscore%65536)>0 order by sum_rp_score desc)###; select t1.f_user, sum
    (t1.sum_rp_score) as t1_sum_score, sum(t2.sum_rp_score) as t2_sum_score, (sum
    (t2.sum_rp_score)-sum(t1.sum_rp_score)) as delta from prd1_usr_tbl as t1 inner join
    prd2_usr_tbl as t2 on t1.f_user=t2.f_user where t2.sum_rp_score > t1.sum_rp_score
    group by t1.f_user order by delta desc

```

Dataset Name	Description	Log Category
Top-Devices-With-Increased-Scores	Reputation top devices with increased scores	traffic

```

drop
    table if exists prd1_dev_tbl;
drop
    table if exists prd2_dev_tbl;
create temporary table prd1_dev_tbl as ###(select
    coalesce(nullifna(`srcname`), nullifna(`srcmac`), ipstr(`srcip`)) as f_device,
    devtype, sum(crscore%65536) as sum_rp_score from $log where $pre_period $filter and
    logid_to_int(logid) not in (4, 7, 14) and crscore is not null group by f_device,
    devtype having sum(crscore%65536)>0 order by sum_rp_score desc)###; create
    temporary table prd2_dev_tbl as ###(select coalesce(nullifna(`srcname`), nullifna
    (`srcmac`), ipstr(`srcip`)) as f_device, devtype, sum(crscore%65536) as sum_rp_
    score from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and crscore
    is not null group by f_device, devtype having sum(crscore%65536)>0 order by sum_rp_
    score desc)###; select t1.f_device, t1.devtype, sum(t1.sum_rp_score) as t1_sum_
    score, sum(t2.sum_rp_score) as t2_sum_score, (sum(t2.sum_rp_score)-sum(t1.sum_rp_
    score)) as delta from prd1_dev_tbl as t1 inner join prd2_dev_tbl as t2 on t1.f_
    device=t2.f_device and t1.devtype=t2.devtype where t2.sum_rp_score > t1.sum_rp_
    score group by t1.f_device, t1.devtype order by delta desc

```

Dataset Name	Description	Log Category
Attacks-By-Severity	Threat attacks by severity	attack

```

select
(
case when severity = 'critical' then 'Critical' when severity = 'high' then 'High'
when severity = 'medium' then 'Medium' when severity = 'low' then 'Low' when
severity = 'info' then 'Info' end
) as severity,
count(*) as totalnum
from
$log
where
$filter
group by
severity
order by
totalnum desc

```

Dataset Name	Description	Log Category
Top-Attacks-Detected	Threat top attacks detected	attack

```

select
attack,
attackid,
severity,
sum(attack_count) as attack_count
from
###(select attack, attackid, t1.severity, (case when t1.severity = 'critical' then 1
when t1.severity = 'high' then 2 when t1.severity = 'medium' then 3 when
t1.severity = 'low' then 4 else 5 end) as severity_level, count(*) as attack_count
from $log t1 left join ips_mdata t2 on t1.attack=t2.name where $filter and nullifna
(attack) is not null group by attack, attackid, t1.severity, severity_level order
by severity_level, attack_count desc)### t group by attack, attackid, severity,
severity_level order by severity_level, attack_count desc

```

Dataset Name	Description	Log Category
Top-Attacks-Blocked	Threat top attacks blocked	attack

```

select
attack,
count(*) as attack_count
from
$log
where
$filter
and nullifna(attack) is not null
and action in (
'deny', 'blocked', 'reset', 'dropped'
)
group by
attack
order by

```

attack_count desc

Dataset Name	Description	Log Category
Top-Virus-Source	Threat top virus source	traffic

```
select
  srcip,
  hostname,
  sum(totalnum) as totalnum
from
  (
    ###(select srcip, hostname, count(*) as totalnum from $log-traffic where $filter and
    logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and virus is not
    null group by srcip, hostname order by totalnum desc)### union all ###(select
    srcip , ipstr(`dstip`) as hostname, count(*) as totalnum from $log-virus where
    $filter and (eventtype is null or logver>=52) and nullifna(virus) is not null
    group by srcip, hostname order by totalnum desc)###) t group by srcip, hostname
    order by totalnum desc
```

Dataset Name	Description	Log Category
Intrusion-in-Last-7-Days	Threat intrusion timeline	attack

```
select
  $flex_timescale as hodex,
  count(*) as totalnum
from
  $log
where
  $filter
group by
  hodex
order by
  hodex
```

Dataset Name	Description	Log Category
Virus-Time-Line	Threat virus timeline	virus

```
select
  hodex,
  sum(totalnum) as totalnum
from
  (
    ###(select $flex_timescale as hodex, count(*) as totalnum from $log-traffic where
    $filter and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and
    virus is not null group by hodex order by hodex desc)### union all ###(select
    $flex_timescale as hodex, count(*) as totalnum from $log-virus where $filter and
    (eventtype is null or logver>=52) and nullifna(virus) is not null group by hodex
    order by hodex desc)###) t group by hodex order by hodex desc
```

Dataset Name	Description	Log Category
Top-Spyware-Victims	Threat top spyware victims	virus

```
select
```

```

    user_src,
    sum(totalnum) as totalnum
from
    ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, count(*) as
        totalnum from $log where $filter group by user_src, virus order by totalnum
        desc)### t where virus like 'Riskware%' group by user_src order by totalnum desc

```

Dataset Name	Description	Log Category
Top-Spyware-by-Name	Threat top spyware by name	virus

```

select
    virus,
    max(virusid) as virusid,
    sum(totalnum) as totalnum
from
    ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, virusid,
        count(*) as totalnum from $log where $filter group by user_src, virus, virusid
        order by totalnum desc)### t where virus like 'Riskware%' group by virus order by
        totalnum desc

```

Dataset Name	Description	Log Category
Top-Spyware-Source	Threat top spyware source	traffic

```

select
    srcip,
    hostname,
    count(*) as totalnum
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and virus like 'Riskware%'
group by
    srcip,
    hostname
order by
    totalnum desc

```

Dataset Name	Description	Log Category
Spyware-Time-Line	Threat spyware timeline	virus

```

select
    $flex_timescale as hodex,
    count(*) as totalnum
from
    $log
where
    $filter
    and virus like 'Riskware%'
group by
    hodex
order by
    hodex desc

```

Dataset Name	Description	Log Category
Top-Adware-Victims	Threat top adware victims	virus

```

select
  user_src,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, count(*) as
    totalnum from $log where $filter group by user_src, virus order by totalnum
    desc)### t where virus like 'Adware%' group by user_src order by totalnum desc

```

Dataset Name	Description	Log Category
Top-Adware-by-Name	Threat top adware by name	virus

```

select
  virus,
  max(virusid) as virusid,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, virusid,
    count(*) as totalnum from $log where $filter group by user_src, virus, virusid
    order by totalnum desc)### t where virus like 'Adware%' group by virus order by
    totalnum desc

```

Dataset Name	Description	Log Category
Top-Adware-Source	Threat top adware source	traffic

```

select
  srcip,
  hostname,
  count(*) as totalnum
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and virus like 'Adware%'
group by
  srcip,
  hostname
order by
  totalnum desc

```

Dataset Name	Description	Log Category
Adware-Time-Line	Threat adware timeline	virus

```

select
  $flex_timescale as hodex,
  count(*) as totalnum
from
  $log
where

```



```

$filter
and virus like 'Adware%'
group by
  hodex
order by
  hodex desc

```

Dataset Name	Description	Log Category
Intrusions-Timeline-By-Severity	Threat intrusions timeline by severity	attack

```

select
  $flex_timescale as timescale,
  (
    case when severity = 'critical' then 'Critical' when severity = 'high' then 'High'
         when severity = 'medium' then 'Medium' when severity = 'low' then 'Low' when
         severity = 'info' then 'Info' end
  ) as severity,
  count(*) as totalnum
from
  $log
where
  $filter
group by
  timescale,
  severity
order by
  timescale

```

Dataset Name	Description	Log Category
Top-Intrusions-By-Types	Threat top intrusions by types	attack

```

select
  vuln_type,
  count(*) as totalnum
from
  $log t1
  left join ips_mdata t2 on t1.attack = t2.name
where
  $filter
  and vuln_type is not null
group by
  vuln_type
order by
  totalnum desc

```

Dataset Name	Description	Log Category
Critical-Severity-Intrusions	Threat critical severity intrusions	attack

```

select
  attack,
  vuln_type,
  count(*) as totalnum
from
  $log t1

```

```

    left join ips_mdata t2 on t1.attack = t2.name
  where
    $filter
    and t1.severity = 'critical'
  group by
    attack,
    vuln_type
  order by
    totalnum desc

```

Dataset Name	Description	Log Category
High-Severity-Intrusions	Threat high severity intrusions	attack

```

select
  attack,
  vuln_type,
  count(*) as totalnum
from
  $log t1
  left join ips_mdata t2 on t1.attack = t2.name
where
  $filter
  and t1.severity = 'high'
group by
  attack,
  vuln_type
order by
  totalnum desc

```

Dataset Name	Description	Log Category
Medium-Severity-Intrusions	Threat medium severity intrusions	attack

```

select
  attack,
  vuln_type,
  count(*) as totalnum
from
  $log t1
  left join ips_mdata t2 on t1.attack = t2.name
where
  $filter
  and t1.severity = 'medium'
group by
  attack,
  vuln_type
order by
  totalnum desc

```

Dataset Name	Description	Log Category
Low-Severity-Intrusions	Threat low severity intrusions	attack

```

select
  attack,
  vuln_type,

```

```

count(*) as totalnum
from
$log t1
left join ips_mdata t2 on t1.attack = t2.name
where
$filter
and t1.severity = 'low'
group by
attack,
vuln_type
order by
totalnum desc

```

Dataset Name	Description	Log Category
Top-Intrusion-Victims	Threat top intrusion victims	attack

```

select
victim,
sum(cri_num) as critical,
sum(high_num) as high,
sum(med_num) as medium,
sum(cri_num + high_num + med_num) as totalnum
from
###(select dstip as victim, sum((case when severity='critical' then 1 else 0 end)) as
cri_num, sum(case when severity='high' then 1 else 0 end) as high_num, sum(case
when severity='medium' then 1 else 0 end) as med_num from $log where $filter and
severity in ('critical', 'high', 'medium') group by victim)### t group by victim
order by totalnum desc

```

Dataset Name	Description	Log Category
Top-Intrusion-Sources	Threat top intrusion sources	attack

```

select
source,
sum(cri_num) as critical,
sum(high_num) as high,
sum(med_num) as medium,
sum(cri_num + high_num + med_num) as totalnum
from
###(select srcip as source, sum(case when severity='critical' then 1 else 0 end) as
cri_num, sum(case when severity='high' then 1 else 0 end) as high_num, sum(case
when severity='medium' then 1 else 0 end) as med_num from $log where $filter and
severity in ('critical', 'high', 'medium') group by source)### t group by source
order by totalnum desc

```

Dataset Name	Description	Log Category
Top-Blocked-Intrusions	Threat top blocked intrusions	attack

```

select
attack,
(
case when t1.severity = 'critical' then 'Critical' when t1.severity = 'high' then
'High' when t1.severity = 'medium' then 'Medium' when t1.severity = 'low' then
'Low' when t1.severity = 'info' then 'Info' end
) as severity_name,

```

```

count(*) as totalnum,
vuln_type,
(
    case when t1.severity = 'critical' then 0 when t1.severity = 'high' then 1 when
        t1.severity = 'medium' then 2 when t1.severity = 'low' then 3 when t1.severity =
        'info' then 4 else 5 end
) as severity_number
from
    $log t1
left join ips_mdata t2 on t1.attack = t2.name
where
    $filter
    and nullifna(attack) is not null
    and action in (
        'deny', 'blocked', 'reset', 'dropped'
    )
group by
    attack,
    t1.severity,
    vuln_type
order by
    severity_number,
    totalnum desc

```

Dataset Name	Description	Log Category
Top-Monitored-Intrusions	Threat top monitored intrusions	attack

```

select
    attack,
    (
        case when t1.severity = 'critical' then 'Critical' when t1.severity = 'high' then
            'High' when t1.severity = 'medium' then 'Medium' when t1.severity = 'low' then
            'Low' when t1.severity = 'info' then 'Info' end
    ) as severity_name,
    count(*) as totalnum,
    vuln_type,
    (
        case when t1.severity = 'critical' then 0 when t1.severity = 'high' then 1 when
            t1.severity = 'medium' then 2 when t1.severity = 'low' then 3 when t1.severity =
            'info' then 4 else 5 end
    ) as severity_number
from
    $log t1
left join ips_mdata t2 on t1.attack = t2.name
where
    $filter
    and nullifna(attack) is not null
    and action not in (
        'deny', 'blocked', 'reset', 'dropped'
    )
group by
    attack,
    t1.severity,
    vuln_type
order by
    severity_number,
    totalnum desc

```

Dataset Name	Description	Log Category
Attacks-Over-HTTP-HTTPS	Threat attacks over HTTP HTTPS	attack

```

select
  attack,
  (
    case when severity = 'critical' then 'Critical' when severity = 'high' then 'High'
         when severity = 'medium' then 'Medium' when severity = 'low' then 'Low' when
         severity = 'info' then 'Info' end
  ) as severity,
  count(*) as totalnum,
  (
    case when severity = 'critical' then 0 when severity = 'high' then 1 when severity =
         'medium' then 2 when severity = 'low' then 3 when severity = 'info' then 4 else
         5 end
  ) as severity_number
from
  $log
where
  $filter
  and severity in ('critical', 'high', 'medium')
  and upper(service) in ('HTTP', 'HTTPS')
group by
  attack,
  severity,
  severity_number
order by
  severity_number,
  totalnum desc

```

Dataset Name	Description	Log Category
default-AP-Detection-Summary-by-Status-OffWire	Default access point detection summary by status off-wire	event

```

select
  (
    case apstatus when 1 then 'rogue' when 2 then 'accepted' when 3 then 'suppressed'
         else 'others' end
  ) as ap_full_status,
  count(*) as totalnum
from
  (
    select
      apstatus,
      bssid,
      ssid
    from
      ###(select apstatus, bssid, ssid, count(*) as subtotal from $log where $filter
         and apstatus is not null and apstatus!=0 and bssid is not null and
         onwire='no' and logid_to_int(logid) in (43527, 43521, 43525, 43563, 43564,
         43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group by
         apstatus, bssid, ssid order by subtotal desc)### t group by apstatus, bssid,
         ssid) t group by ap_full_status order by totalnum desc
  )

```

Dataset Name	Description	Log Category
default-AP-Detection-Summary-by-Status-OffWire_table	Default access point detection summary by status off-wire	event

```

select
(
case apstatus when 1 then 'rogue' when 2 then 'accepted' when 3 then 'suppressed'
else 'others' end
) as ap_full_status,
count(*) as totalnum
from
(
select
apstatus,
bssid,
ssid
from
###(select apstatus, bssid, ssid, count(*) as subtotal from $log where $filter
and apstatus is not null and apstatus!=0 and bssid is not null and
onwire='no' and logid_to_int(logid) in (43527, 43521, 43525, 43563, 43564,
43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group by
apstatus, bssid, ssid order by subtotal desc)### t group by apstatus, bssid,
ssid) t group by ap_full_status order by totalnum desc

```

Dataset Name	Description	Log Category
default-AP-Detection-Summary-by-Status-OnWire	Default access point detection summary by status on-wire	event

```

select
(
case apstatus when 1 then 'rogue' when 2 then 'accepted' when 3 then 'suppressed'
else 'others' end
) as ap_full_status,
count(*) as totalnum
from
(
select
apstatus,
bssid,
ssid
from
###(select apstatus, bssid, ssid, count(*) as subtotal from $log where $filter
and apstatus is not null and apstatus!=0 and bssid is not null and
onwire='yes' and logid_to_int(logid) in (43527, 43521, 43525, 43563, 43564,
43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group by
apstatus, bssid, ssid order by subtotal desc)### t group by apstatus, bssid,
ssid) t group by ap_full_status order by totalnum desc

```

Dataset Name	Description	Log Category
default-AP-Detection-Summary-by-Status-OnWire_table	Default access point detection summary by status on-wire	event

```

select

```

```

(
    case apstatus when 1 then 'rogue' when 2 then 'accepted' when 3 then 'suppressed'
    else 'others' end
) as ap_full_status,
count(*) as totalnum
from
(
    select
        apstatus,
        bssid,
        ssid
    from
        ###(select apstatus, bssid, ssid, count(*) as subtotal from $log where $filter
        and apstatus is not null and apstatus!=0 and bssid is not null and
        onwire='yes' and logid_to_int(logid) in (43527, 43521, 43525, 43563, 43564,
        43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group by
        apstatus, bssid, ssid order by subtotal desc)### t group by apstatus, bssid,
        ssid) t group by ap_full_status order by totalnum desc

```

Dataset Name	Description	Log Category
default-Managed-AP-Summary	Default managed access point summary	event

```

select
(
    case when (
        action like '%join%'
        and logid_to_int(logid) in (43522, 43551)
    ) then 'Authorized' else 'Unauthorized' end
) as ap_status,
count(*) as totalnum
from
    $log
where
    $filter
    and logid_to_int(logid) in (43522, 43551)
group by
    ap_status
order by
    totalnum desc

```

Dataset Name	Description	Log Category
default-Managed-AP-Summary_table	Default managed access point summary	event

```

select
(
    case when (
        action like '%join%'
        and logid_to_int(logid) in (43522, 43551)
    ) then 'Authorized' else 'Unauthorized' end
) as ap_status,
count(*) as totalnum
from
    $log
where
    $filter

```

```

        and logid_to_int(logid) in (43522, 43551)
    group by
        ap_status
    order by
        totalnum desc

```

Dataset Name	Description	Log Category
default-Unclassified-AP-Summary	Default unclassified access point summary	event

```

select
(
    case onwire when 'no' then 'off-wire' when 'yes' then 'on-wire' else 'others' end
) as ap_status,
count(*) as totalnum
from
###(select onwire, ssid, bssid, count(*) as subtotal from $log where $filter and
    apstatus=0 and bssid is not null and logid_to_int(logid) in (43521, 43525, 43527,
    43563, 43564, 43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group
    by onwire, ssid, bssid order by subtotal desc)### t group by ap_status order by
    totalnum desc

```

Dataset Name	Description	Log Category
default-Unclassified-AP-Summary_ table	Default unclassified access point summary	event

```

select
(
    case onwire when 'no' then 'off-wire' when 'yes' then 'on-wire' else 'others' end
) as ap_status,
count(*) as totalnum
from
###(select onwire, ssid, bssid, count(*) as subtotal from $log where $filter and
    apstatus=0 and bssid is not null and logid_to_int(logid) in (43521, 43525, 43527,
    43563, 43564, 43565, 43566, 43569, 43570, 43571, 43582, 43583, 43584, 43585) group
    by onwire, ssid, bssid order by subtotal desc)### t group by ap_status order by
    totalnum desc

```

Dataset Name	Description	Log Category
default-selected-AP-Details-OffWire	Default selected access point details off-wire	event

```

select
(
    case apstatus when 0 then 'unclassified' when 1 then 'rogue' when 2 then 'accepted'
    when 3 then 'suppressed' else 'others' end
) as ap_full_status,
devid,
vd,
ssid,
bssid,
manuf,
rssi,
channel,
radioband,
from_dtime(

```



```

        min(dtime)
    ) as first_seen,
    from_dtime(
        max(dtime)
    ) as last_seen,
    detectionmethod,
    itime,
    onwire as on_wire
from
    $log
where
    $filter
    and apstatus is not null
    and bssid is not null
    and onwire = 'no'
    and logid_to_int(logid) in (
        43521, 43563, 43564, 43565, 43566, 43569,
        43570, 43571
    )
group by
    ap_full_status,
    devid,
    vd,
    ssid,
    bssid,
    manuf,
    rssi,
    channel,
    radioband,
    detectionmethod,
    itime,
    onwire,
    apstatus

```

Dataset Name	Description	Log Category
default-selected-AP-Details-OnWire	Default selected access point details on-wire	event

```

select
    (
        case apstatus when 0 then 'unclassified' when 1 then 'rogue' when 2 then 'accepted'
            when 3 then 'suppressed' else 'others' end
    ) as ap_full_status,
    devid,
    vd,
    ssid,
    bssid,
    manuf,
    rssi,
    channel,
    radioband,
    from_dtime(
        min(dtime)
    ) as first_seen,
    from_dtime(
        max(dtime)
    ) as last_seen,

```

```

        detectionmethod,
        itime,
        onwire as on_wire
from
    $log
where
    $filter
    and apstatus is not null
    and bssid is not null
    and onwire = 'yes'
    and logid_to_int(logid) in (
        43521, 43563, 43564, 43565, 43566, 43569,
        43570, 43571
    )
group by
    ap_full_status,
    devid,
    vd,
    ssid,
    bssid,
    manuf,
    rssi,
    channel,
    radioband,
    detectionmethod,
    itime,
    onwire,
    apstatus

```

Dataset Name	Description	Log Category
event-Wireless-Client-Details	Event wireless client details	event

```

drop
    table if exists ip_list; create temporary table ip_list as
select
    ip,
    lower(mac) as lmac,
    sn,
    ssid,
    channel,
    radioband,
    min(dtime) as first,
    max(dtime) as last
from
    $log - event
where
    $filter
    and ip is not null
    and mac is not null
    and sn is not null
    and ssid is not null
group by
    ip,
    lmac,
    sn,
    ssid,

```

```

        channel,
        radioband
order by
    ip;
select
    user_src,
    ip,
    lmac,
    sn,
    ssid,
    channel,
    radioband,
    from_dtime(first) as first_seen,
    from_dtime(last) as last_seen,
    cast(
        volume as decimal(18, 2)
    ) as bandwidth
from
    (
        select
            *
        from
            ip_list
        inner join (
            select
                user_src,
                srcip,
                sum(volume) as volume
            from
                ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
                    (`srcip`)) as user_src, srcip, sum(coalesce(sentbyte, 0)+coalesce
                    (rcvdbyte, 0)) as volume from $log-traffic where $filter-time and logid_
                    to_int(logid) not in (4, 7, 14) and srcip is not null group by user_src,
                    srcip having sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 order by
                    volume desc)### t group by user_src, srcip order by user_src, srcip) t
            on ip_list.ip = t.srcip) t order by volume desc

```

Dataset Name	Description	Log Category
event-Wireless-Accepted-Offwire	Event wireless accepted off-wire	event

```

select
    'accepted' as ap_full_status,
    devid,
    vd,
    ssid,
    bssid,
    manuf,
    channel,
    radioband,
    from_dtime(
        max(last_seen)
    ) as last_seen,
    detectionmethod,
    snclosest,
    'no' as on_wire
from

```

```

###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
    snclosest, onwire, logid, apstatus, max(dtime) as last_seen from $log where $filter
    and bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564,
    43565, 43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
    radioband, detectionmethod, snclosest, onwire, logid, apstatus order by last_seen
    desc)### t where apstatus=2 and onwire='no' group by devid, vd, ssid, bssid, manuf,
    channel, radioband, detectionmethod, snclosest order by last_seen desc

```

Dataset Name	Description	Log Category
event-Wireless-Accepted-Onwire	Event wireless accepted on-wire	event

```

select
    'accepted' as ap_full_status,
    devid,
    vd,
    ssid,
    bssid,
    manuf,
    channel,
    radioband,
    from_dtime(
        max(last_seen)
    ) as last_seen,
    detectionmethod,
    snclosest,
    'yes' as on_wire
from
    ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
        snclosest, onwire, apstatus, max(dtime) as last_seen from $log where $filter and
        bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564, 43565,
        43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
        radioband, detectionmethod, snclosest, onwire, apstatus order by last_seen desc)###
    t where apstatus=2 and onwire='yes' group by devid, vd, ssid, bssid, manuf,
    channel, radioband, detectionmethod, snclosest order by last_seen desc

```

Dataset Name	Description	Log Category
event-Wireless-Rogue-Offwire	Event wireless rogue off-wire	event

```

select
    'rogue' as ap_full_status,
    devid,
    vd,
    ssid,
    bssid,
    manuf,
    channel,
    radioband,
    from_dtime(
        max(last_seen)
    ) as last_seen,
    detectionmethod,
    snclosest,
    'no' as on_wire
from
    ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
        snclosest, onwire, logid, apstatus, max(dtime) as last_seen from $log where $filter

```

```
and bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564,
43565, 43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
radioband, detectionmethod, snclosest, onwire, logid, apstatus order by last_seen
desc)### t where apstatus=1 and onwire='no' group by devid, vd, ssid, bssid, manuf,
channel, radioband, detectionmethod, snclosest order by last_seen desc
```

Dataset Name	Description	Log Category
event-Wireless-Rogue-Onwire	Event wireless rogue on-wire	event

```
select
  'rogue' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'yes' as on_wire
from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
  snclosest, onwire, apstatus, max(dtime) as last_seen from $log where $filter and
  bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564, 43565,
  43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
  radioband, detectionmethod, snclosest, onwire, apstatus order by last_seen desc)###
  t where apstatus=1 and onwire='yes' group by devid, vd, ssid, bssid, manuf,
  channel, radioband, detectionmethod, snclosest order by last_seen desc
```

Dataset Name	Description	Log Category
event-Wireless-Suppressed-Offwire	Event wireless suppressed off-wire	event

```
select
  'suppressed' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'no' as on_wire
from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
  snclosest, onwire, logid, apstatus, max(dtime) as last_seen from $log where $filter
  and bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564,
  43565, 43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
```

```
radioband, detectionmethod, snclosest, onwire, logid, apstatus order by last_seen desc)### t where apstatus=3 and onwire='no' group by devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod, snclosest order by last_seen desc
```

Dataset Name	Description	Log Category
event-Wireless-Suppressed-Onwire	Event wireless suppressed on-wire	event

```
select
  'suppressed' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'yes' as on_wire
from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
    snclosest, onwire, apstatus, max(dtime) as last_seen from $log where $filter and
    bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564, 43565,
    43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
    radioband, detectionmethod, snclosest, onwire, apstatus order by last_seen desc)###
  t where apstatus=3 and onwire='yes' group by devid, vd, ssid, bssid, manuf,
  channel, radioband, detectionmethod, snclosest order by last_seen desc
```

Dataset Name	Description	Log Category
event-Wireless-Unclassified-Offwire	Event wireless unclassified off-wire	event

```
select
  'unclassified' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'no' as on_wire
from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
    snclosest, onwire, logid, apstatus, max(dtime) as last_seen from $log where $filter
    and bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564,
    43565, 43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
    radioband, detectionmethod, snclosest, onwire, logid, apstatus order by last_seen
```

```
desc)### t where apstatus=0 and onwire='no' group by devid, vd, ssid, bssid, manuf,
channel, radioband, detectionmethod, snclosest order by last_seen desc
```

Dataset Name	Description	Log Category
event-Wireless-Unclassified-Onwire	Event wireless unclassified on-wire	event

```
select
  'unclassified' as ap_full_status,
  devid,
  vd,
  ssid,
  bssid,
  manuf,
  channel,
  radioband,
  from_dtime(
    max(last_seen)
  ) as last_seen,
  detectionmethod,
  snclosest,
  'yes' as on_wire
from
  ###(select devid, vd, ssid, bssid, manuf, channel, radioband, detectionmethod,
  snclosest, onwire, apstatus, max(dtime) as last_seen from $log where $filter and
  bssid is not null and logid_to_int(logid) in (43521, 43525, 43563, 43564, 43565,
  43566, 43569, 43570, 43571) group by devid, vd, ssid, bssid, manuf, channel,
  radioband, detectionmethod, snclosest, onwire, apstatus order by last_seen desc)###
  t where apstatus=0 and onwire='yes' group by devid, vd, ssid, bssid, manuf,
  channel, radioband, detectionmethod, snclosest order by last_seen desc
```

Dataset Name	Description	Log Category
default-Top-IPSEC-Vpn-Dial-Up-User-By-Bandwidth	Default top IPsec VPN dial up user by bandwidth usage	event

```
select
  coalesce(
    xauthuser_agg,
    user_agg,
    ipstr(`remip`)
  ) as user_src,
  from_dtime(
    min(s_time)
  ) as start_time,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  (
    select
      devid,
      vd,
      string_agg(distinct xauthuser_agg, ' ') as xauthuser_agg,
      string_agg(distinct user_agg, ' ') as user_agg,
      remip,
      tunnelid,
```

```

min(s_time) as s_time,
max(e_time) as e_time,
(
    case when min(s_time)= max(e_time) then max(max_traffic_in)+ max(max_traffic_out) else max(max_traffic_in)- min(min_traffic_in)+ max(max_traffic_out)- min(min_traffic_out) end
) as bandwidth,
(
    case when min(s_time)= max(e_time) then max(max_traffic_in) else max(max_traffic_in)- min(min_traffic_in) end
) as traffic_in,
(
    case when min(s_time)= max(e_time) then max(max_traffic_out) else max(max_traffic_out)- min(min_traffic_out) end
) as traffic_out
from
###(select devid, vd, nullifna(`xauthuser`) as xauthuser_agg, nullifna(`user`) as user_agg, remip, tunnelid, min(coalesce(dtime, 0)) as s_time, max(coalesce(dtime, 0)) as e_time, min(coalesce(sentbyte, 0)) as min_traffic_out, min(coalesce(rcvdbyte, 0)) as min_traffic_in, max(coalesce(sentbyte, 0)) as max_traffic_out, max(coalesce(rcvdbyte, 0)) as max_traffic_in from $log where $filter and subtype='vpn' and tunneltype like 'ipsec%' and not (tunnelip is null or (tunnelip='0.0.0.0' and logver is null)) and action in ('tunnel-stats', 'tunnel-down', 'tunnel-up') and tunnelid is not null group by devid, vd, xauthuser_agg, user_agg, remip, tunnelid order by tunnelid)### t group by devid, vd, remip, tunnelid) tt group by user_src having sum(bandwidth)>0 order by bandwidth desc

```

Dataset Name	Description	Log Category
default-Top-Sources-Of-SSL-VPN-Tunnels-By-Bandwidth	Default top sources of SSL VPN tunnels by bandwidth usage	event

```

select
    remip as remote_ip,
    sum(traffic_in + traffic_out) as bandwidth
from
(
    select
        devid,
        vd,
        remip,
        tunnelid,
        max(traffic_in) as traffic_in,
        max(traffic_out) as traffic_out
    from
        ###(select devid, vd, remip, tunnelid, max(coalesce(sentbyte, 0)) as traffic_out, max(coalesce(rcvdbyte, 0)) as traffic_in from $log where $filter and subtype='vpn' and tunneltype like 'ssl%' and action in ('tunnel-stats', 'tunnel-down') and remip is not null and tunnelid is not null group by devid, vd, remip, tunnelid order by tunnelid)### t group by devid, vd, remip, tunnelid) tt group by remote_ip having sum(traffic_in+traffic_out)>0 order by bandwidth desc

```

Dataset Name	Description	Log Category
webfilter-Web-Activity-Summary-By-Requests	Webfilter web activity summary by requests	webfilter


```

select
  hodex,
  sum(allowed_request) as allowed_request,
  sum(blocked_request) as blocked_request
from
  (
    ###(select $flex_timescale as hodex, sum(case when utmaction!='blocked' then 1 else
    0 end) as allowed_request, sum(case when utmaction='blocked' then 1 else 0 end)
    as blocked_request from $log-traffic where $filter and logid_to_int(logid) not
    in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-content',
    'command-block', 'script-filter') group by hodex order by hodex)### union all
    ###(select $flex_timescale as hodex, sum(case when action!='blocked' then 1 else
    0 end) as allowed_request, sum(case when action='blocked' then 1 else 0 end) as
    blocked_request from $log-webfilter where $filter and (eventtype is null or
    logver>=52) group by hodex order by hodex)###) t group by hodex order by hodex

```

Dataset Name	Description	Log Category
traffic-Browsing-Time-Summary	Traffic browsing time summary	traffic

```

select
  hodex,
  cast(
    sum(delta) / 60.0 as decimal(18, 2)
  ) as browsetime
from
  ###(select $flex_timescale as hodex, sum($browse_time) as delta from $log where $filter
  and logid_to_int(logid) not in (4, 7, 14) group by hodex having sum($browse_time)>0
  order by delta desc)### t group by hodex order by hodex

```

Dataset Name	Description	Log Category
traffic-Browsing-Time-Summary-Enhanced	Traffic browsing time summary enhanced	traffic

```

select
  hodex,
  cast(
    sum(delta) / 60.0 as decimal(18, 2)
  ) as browsetime
from
  ###(select $flex_timescale as hodex, sum($browse_time2) as delta from $log where
  $filter and logid_to_int(logid) not in (4, 7, 14) group by hodex having sum
  ($browse_time2)>0 order by delta desc)### t group by hodex order by hodex

```

Dataset Name	Description	Log Category
webfilter-Top-Web-Users-By-Blocked-Requests	Webfilter top web users by blocked requests	webfilter

```

select
  user_src,
  sum(requests) as requests
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
    user_src, count(*) as requests from $log-traffic where $filter and logid_to_int
    (logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-

```

```
content', 'command-block', 'script-filter') and coalesce(nullifna(`user`),
nullifna(`unauthuser`), ipstr(`srcip`)) is not null and utmaction='blocked'
group by user_src order by requests desc)### union all ###(select coalesce
(nullifna(`user`), ipstr(`srcip`)) as user_src, count(*) as requests from $log-
webfilter where $filter and (eventtype is null or logver>=52) and coalesce
(nullifna(`user`), ipstr(`srcip`)) is not null and action='blocked' group by
user_src order by requests desc)###) t group by user_src order by requests desc
```

Dataset Name	Description	Log Category
webfilter-Top-Web-Users-By-Allowed-Requests	Webfilter top web users by allowed requests	webfilter

```
select
  user_src,
  sum(requests) as requests
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
    user_src, count(*) as requests from $log-traffic where $filter and logid_to_int
    (logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-
    content', 'command-block', 'script-filter') and coalesce(nullifna(`user`),
    nullifna(`unauthuser`), ipstr(`srcip`)) is not null and utmaction!='blocked'
    group by user_src order by requests desc)### union all ###(select coalesce
    (nullifna(`user`), ipstr(`srcip`)) as user_src, count(*) as requests from $log-
    webfilter where $filter and (eventtype is null or logver>=52) and coalesce
    (nullifna(`user`), ipstr(`srcip`)) is not null and action!='blocked' group by
    user_src order by requests desc)###) t group by user_src order by requests desc
```

Dataset Name	Description	Log Category
traffic-Top-Web-Users-By-Browsing-Time	Traffic top web users by browsing time	traffic

```
select
  user_src,
  sum(delta) as browsetime,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, sum($browse_time) as
  delta, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce
  (rcvdbyte, 0)) as traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out from $log
  where $filter group by user_src having sum($browse_time)>0 order by delta desc)###
  t group by user_src order by browsetime desc
```

Dataset Name	Description	Log Category
webfilter-Top-Blocked-Web-Sites-By-Requests	Webfilter top blocked web sites by requests	webfilter

```
select
  domain,
  catdesc,
  sum(requests) as requests
from
  (
```

```

###(select hostname as domain, catdesc, count(*) as requests from $log-traffic where
$filter and logid_to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter',
'banned-word', 'web-content', 'command-block', 'script-filter') and hostname is
not null and utmaction='blocked' group by domain, catdesc order by requests
desc)### union all ###(select hostname as domain, catdesc, count(*) as requests
from $log-webfilter where $filter and (eventtype is null or logver>=52) and
hostname is not null and catdesc is not null and action='blocked' group by
domain, catdesc order by requests desc)###) t group by domain, catdesc order by
requests desc

```

Dataset Name	Description	Log Category
webfilter-Top-Allowed-Web-Sites-By-Requests	Webfilter top allowed web sites by requests	webfilter

```

select
  domain,
  string_agg(distinct catdesc, ', ') as agg_catdesc,
  sum(requests) as requests
from
  (
    ###(select hostname as domain, catdesc, count(*) as requests from $log-traffic where
    $filter and logid_to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter',
    'banned-word', 'web-content', 'command-block', 'script-filter') and hostname is
    not null and utmaction!='blocked' group by domain, catdesc order by requests
    desc)### union all ###(select hostname as domain, catdesc, count(*) as requests
    from $log-webfilter where $filter and (eventtype is null or logver>=52) and
    hostname is not null and catdesc is not null and action!='blocked' group by
    domain, catdesc order by requests desc)###) t group by domain order by requests
    desc

```

Dataset Name	Description	Log Category
webfilter-Top-Video-Streaming-Web-sites-By-Bandwidth	Webfilter top video streaming websites by bandwidth usage	webfilter

```

select
  domain,
  sum(bandwidth) as bandwidth,
  sum(traffic_in) as traffic_in,
  sum(traffic_out) as traffic_out
from
  ###(select coalesce(nullifna(root_domain(hostname)), 'other') as domain, sum(coalesce
  (sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as
  traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out from $log-traffic where
  $filter and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0)
  or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-content',
  'command-block', 'script-filter')))) and catdesc in ('Streaming Media and Download')
  group by domain having sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 order by
  bandwidth desc)### t group by domain order by bandwidth desc

```

Dataset Name	Description	Log Category
webfilter-Top-Blocked-Web-Categories	Webfilter top blocked web categories	webfilter

```

select
  catdesc,
  sum(requests) as requests

```

```

from
(
    ###(select catdesc, count(*) as requests from $log-traffic where $filter and logid_
    to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word',
    'web-content', 'command-block', 'script-filter') and catdesc is not null and
    utmaction='blocked' group by catdesc order by requests desc)### union all ###
    (select catdesc, count(*) as requests from $log-webfilter where $filter and
    (eventtype is null or logver>=52) and catdesc is not null and action='blocked'
    group by catdesc order by requests desc)###) t group by catdesc order by
    requests desc

```

Dataset Name	Description	Log Category
webfilter-Top-Allowed-Web-Categories	Webfilter top allowed web categories	webfilter

```

select
    catdesc,
    sum(requests) as requests
from
(
    ###(select catdesc, count(*) as requests from $log-traffic where $filter and logid_
    to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word',
    'web-content', 'command-block', 'script-filter') and catdesc is not null and
    utmaction!='blocked' group by catdesc order by requests desc)### union all ###
    (select catdesc, count(*) as requests from $log-webfilter where $filter and
    (eventtype is null or logver>=52) and catdesc is not null and action!='blocked'
    group by catdesc order by requests desc)###) t group by catdesc order by
    requests desc

```

Dataset Name	Description	Log Category
traffic-Top-50-Sites-By-Browsing-Time	Traffic top sites by browsing time	traffic

```

select
    hostname,
    string_agg(distinct catdesc, ', ') as agg_catdesc,
    sum(delta) as browsetime,
    sum(bandwidth) as bandwidth,
    sum(traffic_in) as traffic_in,
    sum(traffic_out) as traffic_out
from
    ###(select hostname, catdesc, sum($browse_time) as delta, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in,
    sum(coalesce(sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int
    (logid) not in (4, 7, 14) and hostname is not null group by hostname, catdesc
    having sum($browse_time)>0 order by delta desc)### t group by hostname order by
    browsetime desc

```

Dataset Name	Description	Log Category
traffic-Top-50-Sites-By-Browsing-Time-Enhanced	Traffic top sites by browsing time enhanced	traffic

```

select
    hostname,
    string_agg(distinct catdesc, ', ') as agg_catdesc,
    sum(delta) as browsetime,
    sum(bandwidth) as bandwidth,

```

```

sum(traffic_in) as traffic_in,
sum(traffic_out) as traffic_out
from
###(select hostname, catdesc, sum($browse_time2) as delta, sum(coalesce(sentbyte,
0)+coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in,
sum(coalesce(sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int
(logid) not in (4, 7, 14) and hostname is not null group by hostname, catdesc
having sum($browse_time2)>0 order by delta desc)### t group by hostname order by
browsetime desc

```

Dataset Name	Description	Log Category
traffic-Top-10-Categories-By-Browsing-Time	Traffic top category by browsing time	traffic

```

select
catdesc,
sum(delta) as browsetime,
sum(bandwidth) as bandwidth
from
###(select catdesc, sum($browse_time) as delta, sum(coalesce(sentbyte, 0)+coalesce
(rcvdbyte, 0)) as bandwidth from $log where $filter and logid_to_int(logid) not in
(4, 7, 14) and catdesc is not null group by catdesc having sum($browse_time)>0
order by delta desc)### t group by catdesc order by browsetime desc

```

Dataset Name	Description	Log Category
traffic-Top-10-Categories-By-Browsing-Time-Enhanced	Traffic top category by browsing time enhanced	traffic

```

select
catdesc,
sum(delta) as browsetime,
sum(bandwidth) as bandwidth
from
###(select catdesc, sum($browse_time2) as delta, sum(coalesce(sentbyte, 0)+coalesce
(rcvdbyte, 0)) as bandwidth from $log where $filter and logid_to_int(logid) not in
(4, 7, 14) and catdesc is not null group by catdesc having sum($browse_time2)>0
order by delta desc)### t group by catdesc order by browsetime desc

```

Dataset Name	Description	Log Category
traffic-Top-Destination-Countries-By-Browsing-Time	Traffic top destination countries by browsing time	traffic

```

select
dstcountry,
sum(delta) as browsetime,
sum(bandwidth) as bandwidth,
sum(traffic_in) as traffic_in,
sum(traffic_out) as traffic_out
from
###(select dstcountry, sum($browse_time) as delta, sum(coalesce(sentbyte, 0)+coalesce
(rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum(coalesce
(sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int(logid) not
in (4, 7, 14) group by dstcountry having sum($browse_time)>0 order by delta
desc)### t group by dstcountry order by browsetime desc

```

Dataset Name	Description	Log Category
traffic-Top-Destination-Countries-By-Browsing-Time-Enhanced	Traffic top destination countries by browsing time enhanced	traffic

```

select
    dstcountry,
    sum(delta) as browsetime,
    sum(bandwidth) as bandwidth,
    sum(traffic_in) as traffic_in,
    sum(traffic_out) as traffic_out
from
    ###(select dstcountry, sum($browse_time2) as delta, sum(coalesce(sentbyte, 0)+coalesce(
rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum(coalesce(
sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int(logid) not
in (4, 7, 14) group by dstcountry having sum($browse_time2)>0 order by delta
desc)### t group by dstcountry order by browsetime desc

```

Dataset Name	Description	Log Category
webfilter-Top-Search-Phrases	Webfilter top search phrases	webfilter

```

select
    keyword,
    count(*) as requests
from
    $log
where
    $filter
    and keyword is not null
group by
    keyword
order by
    requests desc

```

Dataset Name	Description	Log Category
Top-10-Users-Browsing-Time	Estimated browsing time	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    sum($browse_time) as browsetime
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    user_src
having
    sum($browse_time)> 0
order by

```

browsetime desc

Dataset Name	Description	Log Category
Top-10-Users-Browsing-Time-Enhanced	Estimated browsing time enhanced	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum($browse_time2) as browsetime
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  user_src
having
  sum($browse_time2) > 0
order by
  browsetime desc
```

Dataset Name	Description	Log Category
Estimated-Browsing-Time	Estimated browsing time	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  sum($browse_time) as browsetime
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  user_src
having
  sum($browse_time) > 0
order by
  browsetime desc
```

Dataset Name	Description	Log Category
Estimated-Browsing-Time-Enhanced	Estimated browsing time enhanced	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
```

```

    ) as user_src,
    sum($browse_time2) as browsetime
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    user_src
having
    sum($browse_time2) > 0
order by
    browsetime desc

```

Dataset Name	Description	Log Category
wifi-Top-AP-Bandwidth	Top access point by bandwidth usage	traffic

```

select
    srcintf,
    sum(
        coalesce(sentbyte, 0) + coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and (
        srcssid is not null
        or dstssid is not null
    )
group by
    srcintf
having
    sum(
        coalesce(sentbyte, 0) + coalesce(rcvdbyte, 0)
    ) > 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-AP-By-Client	Top access point by client	traffic

```

select
    srcintf,
    count(distinct srcmac) as totalnum
from
    ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
        from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
        not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
        osname, osversion, devtype, srcmac order by subtotal desc)### t group by srcintf
order by totalnum desc

```


Dataset Name	Description	Log Category
wifi-Top-SSID-By-Bandwidth	Top SSIDs by bandwidth usage	traffic

```

select
    srcssid,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and srcssid is not null
group by
    srcssid
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-SSID-By-Client	Top SSIDs by client	traffic

```

select
    srcssid,
    count(distinct srcmac) as totalnum
from
    ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
    from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
    not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
    osname, osversion, devtype, srcmac order by subtotal desc)### t where srcssid is
    not null group by srcssid order by totalnum desc

```

Dataset Name	Description	Log Category
wifi-Top-App-By-Bandwidth	Top WiFi applications by bandwidth usage	traffic

```

select
    appid,
    app,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and (
        srcssid is not null
        or dstssid is not null
    )

```

```

    )
    and nullifna(app) is not null
group by
    appid,
    app
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-Client-By-Bandwidth	Top WiFi client by bandwidth usage	traffic

```

select
    (
        coalesce(srcname, srcmac, 'unknown') || ' (' || coalesce(devtype, 'unknown') || ', '
        || coalesce(osname, '') || (
            case when osversion is null then ' ' else ' ' || osversion end
        ) || ')'
    ) as client,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and (
        srcssid is not null
        or dstssid is not null
    )
group by
    client
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-OS-By-Bandwidth	Top WiFi os by bandwidth usage	traffic

```

select
    (
        coalesce(osname, 'unknown') || ' ' || coalesce(osversion, '')
    ) as os,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log

```

```

where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and (
        srcssid is not null
        or dstssid is not null
    )
group by
    os
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
wifi-Top-OS-By-WiFi-Client	Top WiFi os by WiFi client	traffic

```

select
    (
        coalesce(osname, 'unknown') || ' ' || coalesce(osversion, '')
    ) as os,
    count(distinct srcmac) as totalnum
from
    ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
        from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
        not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
        osname, osversion, devtype, srcmac order by subtotal desc)### t group by os order
    by totalnum desc

```

Dataset Name	Description	Log Category
wifi-Top-Device-By-Bandwidth	Top WiFi device by bandwidth usage	traffic

```

select
    devtype,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and (
        srcssid is not null
        or dstssid is not null
    )
    and devtype is not null
group by
    devtype
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0

```

```
order by
bandwidth desc
```

Dataset Name	Description	Log Category
wifi-Top-Device-By-Client	Top WiFi device by client	traffic

```
select
    devtype,
    count(distinct srcmac) as totalnum
from
    ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
        from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
        not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
        osname, osversion, devtype, srcmac order by subtotal desc)### t where devtype is
        not null group by devtype order by totalnum desc
```

Dataset Name	Description	Log Category
wifi-Overall-Traffic	WiFi overall traffic	traffic

```
select
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and (
        srcssid is not null
        or dstssid is not null
    )
```

Dataset Name	Description	Log Category
wifi-Num-Distinct-Client	WiFi num distinct client	traffic

```
select
    count(distinct srcmac) as totalnum
from
    ###(select srcintf, srcssid, osname, osversion, devtype, srcmac, count(*) as subtotal
        from $log where $filter and logid_to_int(logid) not in (4, 7, 14) and (srcssid is
        not null or dstssid is not null) and srcmac is not null group by srcintf, srcssid,
        osname, osversion, devtype, srcmac order by subtotal desc)### t
```

Dataset Name	Description	Log Category
Top30-Subnets-by-Bandwidth-and-Sessions	Top subnets by application bandwidth	traffic

```
select
    ip_subnet(`srcip`) as subnet,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth,
```

```

sum(
    coalesce(rcvdbyte, 0)
) as traffic_in,
sum(
    coalesce(sentbyte, 0)
) as traffic_out,
count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    subnet
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
Top30-Subnets-by-Application-Bandwidth	Top applications by bandwidth	traffic

```

select
    ip_subnet(`srcip`) as subnet,
    app_group_name(app) as app_group,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and nullifna(app) is not null
group by
    subnet,
    app_group
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
Top30-Subnets-by-Application-Sessions	Top applications by sessions	traffic

```

select
    ip_subnet(`srcip`) as subnet,
    app_group_name(app) as app_group,
    count(*) as sessions
from

```

```

$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and nullifna(app) is not null
group by
    subnet,
    app_group
order by
    sessions desc

```

Dataset Name	Description	Log Category
Top30-Subnets-by-Website-Bandwidth	Top websites and web category by bandwidth	traffic

```

select
    subnet,
    website,
    sum(bandwidth) as bandwidth
from
    ###(select ip_subnet(`srcip`) as subnet, hostname as website, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter and hostname
    is not null and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and
    countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-
    content', 'command-block', 'script-filter')) group by subnet, website order by
    bandwidth desc)### t group by subnet, website order by bandwidth desc

```

Dataset Name	Description	Log Category
Top30-Subnets-by-Website-Hits	Top websites and web category by sessions	traffic

```

select
    subnet,
    website,
    sum(hits) as hits
from
    (
        ###(select ip_subnet(`srcip`) as subnet, hostname as website, count(*) as hits from
        $log-traffic where $filter and hostname is not null and logid_to_int(logid) not
        in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-content',
        'command-block', 'script-filter') group by subnet, website order by hits
        desc)### union all ###(select ip_subnet(`srcip`) as subnet, hostname as website,
        count(*) as hits from $log-webfilter where $filter and hostname is not null and
        (eventtype is null or logver>=52) group by subnet, website order by hits
        desc)###) t group by subnet, website order by hits desc

```

Dataset Name	Description	Log Category
Top30-Subnets-with-Top10-User-by-Bandwidth	Top users by bandwidth	traffic

```

select
    ip_subnet(`srcip`) as subnet,
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,

```

```

        sum(
            coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
        ) as bandwidth
    from
        $log
    where
        $filter
        and logid_to_int(logid) not in (4, 7, 14)
        and srcip is not null
    group by
        subnet,
        user_src
    having
        sum(
            coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
        )> 0
    order by
        bandwidth desc

```

Dataset Name	Description	Log Category
Top30-Subnets-with-Top10-User-by-Sessions	Top users by sessions	traffic

```

select
    ip_subnet(`srcip`) as subnet,
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    subnet,
    user_src
order by
    sessions desc

```

Dataset Name	Description	Log Category
app-Top-20-Category-and-Applications-by-Bandwidth	Top category and applications by bandwidth usage	traffic

```

select
    appcat,
    app,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where

```

```

$filter
and logid_to_int(logid) not in (4, 7, 14)
group by
  appcat,
  app
having
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  )> 0
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
app-Top-20-Category-and-Applications-by-Session	Top category and applications by session	traffic

```

select
  appcat,
  app,
  count(*) as sessions
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  appcat,
  app
order by
  sessions desc

```

Dataset Name	Description	Log Category
app-Top-500-Allowed-Applications-by-Bandwidth	Top allowed applications by bandwidth usage	traffic

```

select
  from_itime(itime) as timestamp,
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  appcat,
  app,
  coalesce(
    root_domain(hostname),
    ipstr(dstip)
  ) as destination,
  sum(
    coalesce(`sentbyte`, 0)+ coalesce(`rcvdbyte`, 0)
  ) as bandwidth
from
  $log
where
  $filter

```



```

        and logid_to_int(logid) not in (4, 7, 14)
        and action in ('accept', 'close', 'timeout')
    group by
        timestamp,
        user_src,
        appcat,
        app,
        destination
    order by
        bandwidth desc

```

Dataset Name	Description	Log Category
app-Top-500-Blocked-Applications-by-Session	Top blocked applications by session	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    appcat,
    app,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and action in (
        'deny', 'blocked', 'reset', 'dropped'
    )
group by
    user_src,
    appcat,
    app
order by
    sessions desc

```

Dataset Name	Description	Log Category
web-Detailed-Website-Browsing-Log	Web detailed website browsing log	traffic

```

select
    from_dtime(dtime) as timestamp,
    catdesc,
    hostname as website,
    action as status,
    sum(bandwidth) as bandwidth
from
    ###(select dtime, catdesc, hostname, utmaction as action, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter and hostname
    is not null and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and
    countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-
    content', 'command-block', 'script-filter')))) group by dtime, catdesc, hostname,

```

```
utmaction order by dttime desc)### t group by dttime, catdesc, website, status order
by dttime desc
```

Dataset Name	Description	Log Category
web-Hourly-Category-and-Website-Hits-Action	Web hourly category and website hits action	traffic

```
select
  hod,
  website,
  sum(hits) as hits
from
  (
    ###(select $hour_of_day as hod, (hostname || ' (' || coalesce(`catdesc`, 'Unknown')
    || ')') as website, count(*) as hits from $log-traffic where $filter and
    hostname is not null and logid_to_int(logid) not in (4, 7, 14) and utmevent in
    ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')
    group by hod, website order by hod, hits desc)### union all ###(select $hour_of_
    day as hod, (hostname || ' (' || coalesce(`catdesc`, 'Unknown') || ')') as
    website , count(*) as hits from $log-webfilter where $filter and hostname is not
    null and (eventtype is null or logver>=52) group by hod, website order by hod,
    hits desc)###) t group by hod, website order by hod, hits desc
```

Dataset Name	Description	Log Category
web-Top-20-Category-and-Websites-by-Bandwidth	Web top category and websites by bandwidth usage	traffic

```
select
  website,
  catdesc,
  sum(bandwidth) as bandwidth
from
  ###(select hostname as website, catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
  0)) as bandwidth from $log-traffic where $filter and hostname is not null and
  logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver
  is null) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-
  block', 'script-filter')))) group by website, catdesc order by bandwidth desc)### t
  group by website, catdesc order by bandwidth desc
```

Dataset Name	Description	Log Category
web-Top-20-Category-and-Websites-by-Session	Web top category and websites by session	traffic

```
select
  website,
  catdesc,
  sum(hits) as hits
from
  (
    ###(select hostname as website, catdesc, count(*) as hits from $log-traffic where
    $filter and hostname is not null and logid_to_int(logid) not in (4, 7, 14) and
    utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block',
    'script-filter') group by website, catdesc order by hits desc)### union all ###
    (select hostname as website, catdesc, count(*) as hits from $log-webfilter where
    $filter and hostname is not null and (eventtype is null or logver>=52) group by
```

```
website, catdesc order by hits desc)###) t group by website, catdesc order by hits desc
```

Dataset Name	Description	Log Category
web-Top-500-Website-Sessions-by-Bandwidth	Web top website sessions by bandwidth usage	traffic

```
select
  from_dtime(dtime) as timestamp,
  user_src,
  website,
  catdesc,
  cast(
    sum(dura)/ 60 as decimal(18, 2)
  ) as dura,
  sum(bandwidth) as bandwidth
from
  ###(select dtime, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
  user_src, hostname as website, catdesc, sum(coalesce(duration, 0)) as dura, sum
  (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter
  and hostname is not null and logid_to_int(logid) not in (4, 7, 14) and action in
  ('accept','close','timeout') group by dtime, user_src, website, catdesc having sum
  (coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))>0 order by bandwidth desc)### t group
  by dtime, user_src, website, catdesc order by bandwidth desc
```

Dataset Name	Description	Log Category
web-Top-500-User-Visted-Websites-by-Bandwidth	Web top user visted websites by bandwidth usage	traffic

```
select
  website,
  catdesc,
  sum(bandwidth) as bandwidth
from
  ###(select hostname as website, catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
  0)) as bandwidth from $log-traffic where $filter and hostname is not null and
  logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver
  is null) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-
  block', 'script-filter')))) group by hostname, catdesc having sum(coalesce(sentbyte,
  0)+coalesce(rcvdbyte, 0))>0 order by bandwidth desc)### t group by website, catdesc
  order by bandwidth desc
```

Dataset Name	Description	Log Category
web-Top-500-User-Visted-Websites-by-Session	Web top user visted websites by session	traffic

```
select
  website,
  catdesc,
  sum(sessions) as sessions
from
  (
    ###(select hostname as website, catdesc, count(*) as sessions from $log-traffic
    where $filter and hostname is not null and logid_to_int(logid) not in (4, 7, 14)
    and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block',
```

```
'script-filter') group by hostname, catdesc order by sessions desc)### union all
###(select hostname as website, catdesc, count(*) as sessions from $log-
webfilter where $filter and hostname is not null and (eventtype is null or
logver>=52) group by hostname, catdesc order by sessions desc)###) t group by
website, catdesc order by sessions desc
```

Dataset Name	Description	Log Category
fct-Installed-Feature-Summary	Installed Feature Summary	fct-event

```
select
  clientfeature,
  count(*) as totalnum
from
  $log
where
  $filter
  and clientfeature is not null
group by
  clientfeature
order by
  totalnum desc
```

Dataset Name	Description	Log Category
fct-Device-by-Operating-System	Device by OS	fct-event

```
select
  os,
  count(*) as totalnum
from
  $log
where
  $filter
  and os is not null
group by
  os
order by
  totalnum desc
```

Dataset Name	Description	Log Category
fct-Installed-FortiClient-Version	FortiClient Version	fct-event

```
select
  fctver_trim(fctver) as fctver_short,
  count(*) as totalnum
from
  $log
where
  $filter
  and fctver is not null
group by
  fctver_short
order by
  totalnum desc
```

Dataset Name	Description	Log Category
fct-Endpoint-Profile-Deployment	Endpoint Profile Deployment	fct-event

```

select
  coalesce(
    nullifna(usingpolicy),
    'Unknown'
  ) as profile,
  count(*) as totalnum
from
  $log
where
  $filter
group by
  profile
order by
  totalnum desc

```

Dataset Name	Description	Log Category
fct-Client-Summary	Client Summary	fct-event

```

select
  hostname,
  deviceip,
  os,
  profile,
  hostuser,
  fctver_short
from
  ###(select hostname, deviceip, os, coalesce(nullifna(usingpolicy), 'Unknown') as
    profile, coalesce(nullifna(`user`), 'Unknown') as hostuser, fctver_trim(fctver) as
    fctver_short from $log where $filter and os is not null group by hostname,
    deviceip, os, profile, hostuser, fctver_short)### t group by hostname, deviceip,
    os, profile, hostuser, fctver_short

```

Dataset Name	Description	Log Category
fct-Total-Threats-Found	Total Threats Found	fct-traffic

```

select
  coalesce(
    nullifna(utmevent),
    'Unknown'
  ) as utmevent,
  count(*) as totalnum
from
  $log
where
  $filter
group by
  utmevent
order by
  totalnum desc

```

Dataset Name	Description	Log Category
fct-Top10-AV-Threats-Detected	Top AV Threats Detected	fct-traffic

```

select
    srcname,
    count(*) as totalnum
from
    $log
where
    $filter
    and srcname is not null
    and lower(utmevent)= 'antivirus'
group by
    srcname
order by
    totalnum desc

```

Dataset Name	Description	Log Category
fct-Top10-Infected-Devices-with-Botnet	Top Infected Devices with Botnet	fct-traffic

```

select
    hostname,
    count(*) as totalnum
from
    $log
where
    $filter
    and hostname is not null
    and lower(utmevent) in ('webfilter', 'appfirewall')
    and lower(threat) like '%botnet%'
group by
    hostname
order by
    totalnum desc

```

Dataset Name	Description	Log Category
fct-Top10-Infected-Devices-with-Virus-Malware	Top Infected Devices with Virus Malware	fct-traffic

```

select
    hostname,
    count(*) as totalnum
from
    $log
where
    $filter
    and hostname is not null
    and lower(utmevent) in ('antivirus', 'antimalware')
group by
    hostname
order by
    totalnum desc

```

Dataset Name	Description	Log Category
fct-All-Antivirus-Antimalware-Detections	All Antivirus and Antimalware Detections	fct-traffic

```

select
    srcname,
    hostname,
    coalesce(
        nullifna(`user`),
        'Unknown'
    ) as hostuser,
    utmaction
from
    $log
where
    $filter
    and lower(utmevent) in ('antivirus', 'antimalware')
group by
    srcname,
    hostname,
    hostuser,
    utmaction

```

Dataset Name	Description	Log Category
fct-Web-Filter-Violations	Web Filter Violations	fct-traffic

```

select
    remotename,
    hostname,
    coalesce(
        nullifna(`user`),
        'Unknown'
    ) as hostuser,
    utmaction,
    count(*) as totalnum
from
    $log
where
    $filter
    and lower(utmevent)= 'webfilter'
group by
    remotename,
    hostname,
    hostuser,
    utmaction

```

Dataset Name	Description	Log Category
fct-Application-Firewall	Application Firewall	fct-traffic

```

select
    srcname,
    hostname,
    coalesce(
        nullifna(`user`),

```

```

        'Unknown'
    ) as hostuser,
    utmaction
from
    $log
where
    $filter
    and lower(utmevent)= 'appfirewall'
group by
    srcname,
    hostname,
    hostuser,
    utmaction

```

Dataset Name	Description	Log Category
fct-Errors-and-Alerts	Errors and Alerts	fct-event

```

select
    msg,
    hostname,
    coalesce(
        nullifna(`user`),
        'Unknown'
    ) as hostuser
from
    $log
where
    $filter
    and level in ('error', 'alert')
group by
    msg,
    hostname,
    hostuser

```

Dataset Name	Description	Log Category
fct-Threats-by-Top-Devices	Threats by Top Devices	fct-traffic

```

select
    hostname,
    count(*) as totalnum
from
    $log
where
    $filter
    and hostname is not null
    and utmevent is not null
group by
    hostname
order by
    totalnum desc

```

Dataset Name	Description	Log Category
os-Detect-OS-Count	Detected operation system count	traffic


```

select
  (
    coalesce(osname, 'Unknown')
  ) as os,
  count(*) as totalnum
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
group by
  os
order by
  totalnum desc

```

Dataset Name	Description	Log Category
drilldown-Top-App-By-Sessions-Table	Drilldown top applications by session count	traffic

```

select
  appid,
  app,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
    $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
    user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
    $filter-drilldown and nullifna(app) is not null group by appid, app order by
    sessions desc

```

Dataset Name	Description	Log Category
drilldown-Top-App-By-Sessions-Bar	Drilldown top applications by session count	traffic

```

select
  appid,
  app,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
    $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
    user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
    $filter-drilldown and nullifna(app) is not null group by appid, app order by
    sessions desc

```

Dataset Name	Description	Log Category
drilldown-Top-App-By-Bandwidth-Table	Drilldown top applications by bandwidth usage	traffic

```

select
  appid,
  app,
  sum(bandwidth) as bandwidth
from

```

```
###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
(`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
$filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
$filter-drilldown and nullifna(app) is not null group by appid, app having sum
(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-App-By-Bandwidth-Bar	Drilldown top applications by bandwidth usage	traffic

```
select
  appid,
  app,
  sum(bandwidth) as bandwidth
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
  (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
  sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
  $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
  user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
  $filter-drilldown and nullifna(app) is not null group by appid, app having sum
  (bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-Destination-By-Sessions-Table	Drilldown top destination by session count	traffic

```
select
  dstip,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
  (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
  sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
  $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
  user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
  $filter-drilldown and dstip is not null group by dstip order by sessions desc
```

Dataset Name	Description	Log Category
drilldown-Top-Destination-By-Bandwidth-Table	Drilldown top destination by bandwidth usage	traffic

```
select
  dstip,
  sum(bandwidth) as bandwidth
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
  (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
  sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
  $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
  user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
  $filter-drilldown and dstip is not null group by dstip having sum(bandwidth)>0
  order by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-User-By-Sessions-Table	Drilldown top user by session count	traffic

```
select
  user_src,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
    $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
    user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
    $filter-drilldown and user_src is not null group by user_src order by sessions desc
```

Dataset Name	Description	Log Category
drilldown-Top-User-By-Sessions-Bar	Drilldown top user by session count	traffic

```
select
  user_src,
  sum(sessions) as sessions
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
    $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
    user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
    $filter-drilldown and user_src is not null group by user_src order by sessions desc
```

Dataset Name	Description	Log Category
drilldown-Top-User-By-Bandwidth-Table	Drilldown top user by bandwidth usage	traffic

```
select
  user_src,
  sum(bandwidth) as bandwidth
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
    $filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
    user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
    $filter-drilldown and user_src is not null group by user_src having sum
    (bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-User-By-Bandwidth-Bar	Drilldown top user by bandwidth usage	traffic

```
select
  user_src,
  sum(bandwidth) as bandwidth
from
  ###(select appid, app, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as user_src, dstip, srcintf, dstintf, policyid, count(*) as sessions,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where
```

```
$filter-exclude-var and logid_to_int(logid) not in (4, 7, 14) group by appid, app,
user_src, dstip, srcintf, dstintf, policyid order by sessions desc)### t where
$filter-drilldown and user_src is not null group by user_src having sum
(bandwidth)>0 order by bandwidth desc
```

Dataset Name	Description	Log Category
drilldown-Top-Web-User-By-Visit-Table	Drilldown top web user by visit	traffic

```
select
  user_src,
  sum(requests) as visits
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
    user_src, hostname, count(*) as requests from $log-traffic where $filter-
    exclude-var and logid_to_int(logid) not in (4, 7, 14) and utmevent in
    ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')
    and hostname is not null group by user_src, hostname order by requests desc)###
    union all ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src,
    hostname, count(*) as requests from $log-webfilter where $filter-exclude-var and
    (eventtype is null or logver>=52) and hostname is not null group by user_src,
    hostname order by requests desc)###) t where $filter-drilldown and user_src is
    not null group by user_src order by visits desc
```

Dataset Name	Description	Log Category
drilldown-Top-Web-User-By-Visit-Bar	Drilldown top web user by visit	traffic

```
select
  user_src,
  sum(requests) as visits
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
    user_src, hostname, count(*) as requests from $log-traffic where $filter-
    exclude-var and logid_to_int(logid) not in (4, 7, 14) and utmevent in
    ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')
    and hostname is not null group by user_src, hostname order by requests desc)###
    union all ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src,
    hostname, count(*) as requests from $log-webfilter where $filter-exclude-var and
    (eventtype is null or logver>=52) and hostname is not null group by user_src,
    hostname order by requests desc)###) t where $filter-drilldown and user_src is
    not null group by user_src order by visits desc
```

Dataset Name	Description	Log Category
drilldown-Top-Website-By-Request-Table	Drilldown top website by request	traffic

```
select
  hostname,
  sum(requests) as visits
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
    user_src, hostname, count(*) as requests from $log-traffic where $filter-
    exclude-var and logid_to_int(logid) not in (4, 7, 14) and utmevent in
```

```
( 'webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')
and hostname is not null group by user_src, hostname order by requests desc)###
union all ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src,
hostname, count(*) as requests from $log-webfilter where $filter-exclude-var and
(eventtype is null or logver>=52) and hostname is not null group by user_src,
hostname order by requests desc)###) t where $filter-drilldown and hostname is
not null group by hostname order by visits desc
```

Dataset Name	Description	Log Category
drilldown-Top-Website-By-Request-Bar	Drilldown top website by request	traffic

```
select
  hostname,
  sum(requests) as visits
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
    user_src, hostname, count(*) as requests from $log-traffic where $filter-
    exclude-var and logid_to_int(logid) not in (4, 7, 14) and utmevent in
    ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')
    and hostname is not null group by user_src, hostname order by requests desc)###
    union all ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src,
    hostname, count(*) as requests from $log-webfilter where $filter-exclude-var and
    (eventtype is null or logver>=52) and hostname is not null group by user_src,
    hostname order by requests desc)###) t where $filter-drilldown and hostname is
    not null group by hostname order by visits desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Sender-By-Volume	Drilldown top email sender by volume	traffic

```
select
  sender,
  sum(bandwidth) as volume
from
  (
    ###(select sender, recipient, count(*) as requests, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter-exclude-
    var and logid_to_int(logid) not in (4, 7, 14) and service in ('smtp', 'SMTP',
    '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') and utmevent in ('general-
    email-log', 'spamfilter') group by sender, recipient order by requests desc)###
    union all ###(select `from` as sender, `to` as recipient, count(*) as requests,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-
    emailfilter where $filter-exclude-var and service in ('smtp', 'SMTP', '25/tcp',
    '587/tcp', 'smtps', 'SMTPS', '465/tcp') and eventtype is null group by `from`,
    `to` order by requests desc)###) t where $filter-drilldown and sender is not
    null group by sender having sum(bandwidth)>0 order by volume desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Send-Recipient-By-Volume	Drilldown top email send recipient by volume	traffic

```
select
  recipient,
  sum(bandwidth) as volume
from
```

```
(
  ###(select sender, recipient, count(*) as requests, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter-exclude-
    var and logid_to_int(logid) not in (4, 7, 14) and service in ('smtp', 'SMTP',
    '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') and utmevent in ('general-
    email-log', 'spamfilter') group by sender, recipient order by requests desc)###
  union all ###(select `from` as sender, `to` as recipient, count(*) as requests,
    sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-
    emailfilter where $filter-exclude-var and service in ('smtp', 'SMTP', '25/tcp',
    '587/tcp', 'smtps', 'SMTPS', '465/tcp') and eventtype is null group by `from`,
    `to` order by requests desc)###) t where $filter-drilldown and recipient is not
  null group by recipient having sum(bandwidth)>0 order by volume desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Sender-By-Count	Drilldown top email sender by count	traffic

```
select
  sender,
  sum(requests) as requests
from
  (
    ###(select sender, recipient, count(*) as requests, sum(coalesce(sentbyte,
      0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter-exclude-
      var and logid_to_int(logid) not in (4, 7, 14) and service in ('smtp', 'SMTP',
      '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') and utmevent in ('general-
      email-log', 'spamfilter') group by sender, recipient order by requests desc)###
    union all ###(select `from` as sender, `to` as recipient, count(*) as requests,
      sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-
      emailfilter where $filter-exclude-var and service in ('smtp', 'SMTP', '25/tcp',
      '587/tcp', 'smtps', 'SMTPS', '465/tcp') and eventtype is null group by `from`,
      `to` order by requests desc)###) t where $filter-drilldown and sender is not
    null group by sender order by requests desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Send-Recipient-By-Count	Drilldown top email send recipient by count	traffic

```
select
  recipient,
  sum(requests) as requests
from
  (
    ###(select sender, recipient, count(*) as requests, sum(coalesce(sentbyte,
      0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter-exclude-
      var and logid_to_int(logid) not in (4, 7, 14) and service in ('smtp', 'SMTP',
      '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') and utmevent in ('general-
      email-log', 'spamfilter') group by sender, recipient order by requests desc)###
    union all ###(select `from` as sender, `to` as recipient, count(*) as requests,
      sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-
      emailfilter where $filter-exclude-var and service in ('smtp', 'SMTP', '25/tcp',
      '587/tcp', 'smtps', 'SMTPS', '465/tcp') and eventtype is null group by `from`,
      `to` order by requests desc)###) t where $filter-drilldown and recipient is not
    null group by recipient order by requests desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Recipient-By-Volume	Drilldown top email receiver by volume	traffic

```

select
  recipient,
  sum(bandwidth) as volume
from
  (
    ###(select recipient, sender, count(*) as requests, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter-exclude-var and
    logid_to_int(logid) not in (4, 7, 14) and service in ('pop3', 'POP3', '110/tcp',
    'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S',
    '995/tcp') and utmevent in ('general-email-log', 'spamfilter') group by
    recipient, sender order by requests desc)### union all ###(select `to` as
    recipient, `from` as sender, count(*) as requests, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-emailfilter where $filter-
    exclude-var and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP',
    '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') and
    eventtype is null group by `to`, `from` order by requests desc)###) t where
    $filter-drilldown and recipient is not null group by recipient having sum
    (bandwidth)>0 order by volume desc

```

Dataset Name	Description	Log Category
drilldown-Top-Email-Receive-Sender-By-Volume	Drilldown top email receive sender by volume	traffic

```

select
  sender,
  sum(bandwidth) as volume
from
  (
    ###(select recipient, sender, count(*) as requests, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter-exclude-var and
    logid_to_int(logid) not in (4, 7, 14) and service in ('pop3', 'POP3', '110/tcp',
    'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S',
    '995/tcp') and utmevent in ('general-email-log', 'spamfilter') group by
    recipient, sender order by requests desc)### union all ###(select `to` as
    recipient, `from` as sender, count(*) as requests, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-emailfilter where $filter-
    exclude-var and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP',
    '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') and
    eventtype is null group by `to`, `from` order by requests desc)###) t where
    $filter-drilldown and sender is not null group by sender having sum(bandwidth)>0
    order by volume desc

```

Dataset Name	Description	Log Category
drilldown-Top-Email-Recipient-By-Count	Drilldown top email receiver by count	traffic

```

select
  recipient,
  sum(requests) as requests
from

```

```
(
  ###(select recipient, sender, count(*) as requests, sum(coalesce(sentbyte,
  0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter-exclude-var and
  logid_to_int(logid) not in (4, 7, 14) and service in ('pop3', 'POP3', '110/tcp',
  'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S',
  '995/tcp') and utmevent in ('general-email-log', 'spamfilter') group by
  recipient, sender order by requests desc)### union all ###(select `to` as
  recipient, `from` as sender, count(*) as requests, sum(coalesce(sentbyte,
  0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-emailfilter where $filter-
  exclude-var and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP',
  '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') and
  eventtype is null group by `to`, `from` order by requests desc)###) t where
  $filter-drilldown and recipient is not null group by recipient order by requests
  desc
```

Dataset Name	Description	Log Category
drilldown-Top-Email-Receive-Sender-By-Count	Drilldown top email receive sender by count	traffic

```
select
  sender,
  sum(requests) as requests
from
  (
    ###(select recipient, sender, count(*) as requests, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log where $filter-exclude-var and
    logid_to_int(logid) not in (4, 7, 14) and service in ('pop3', 'POP3', '110/tcp',
    'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S',
    '995/tcp') and utmevent in ('general-email-log', 'spamfilter') group by
    recipient, sender order by requests desc)### union all ###(select `to` as
    recipient, `from` as sender, count(*) as requests, sum(coalesce(sentbyte,
    0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-emailfilter where $filter-
    exclude-var and service in ('pop3', 'POP3', '110/tcp', 'imap', 'IMAP',
    '143/tcp', 'imaps', 'IMAPS', '993/tcp', 'pop3s', 'POP3S', '995/tcp') and
    eventtype is null group by `to`, `from` order by requests desc)###) t where
    $filter-drilldown and sender is not null group by sender order by requests desc
```

Dataset Name	Description	Log Category
drilldown-Top-Attack-Destination	Drilldown top attack dest	attack

```
select
  dstip,
  sum(totalnum) as totalnum
from
  ###(select srcip, dstip, count(*) as totalnum from $log where $filter-exclude-var group
  by srcip, dstip order by totalnum desc)### t where $filter-drilldown and dstip is
  not null group by dstip order by totalnum desc
```

Dataset Name	Description	Log Category
drilldown-Top-Attack-Source	Drilldown top attack source	attack

```
select
  srcip,
  sum(totalnum) as totalnum
from
```



```
###(select srcip, dstip, count(*) as totalnum from $log where $filter-exclude-var group
  by srcip, dstip order by totalnum desc)### t where $filter-drilldown and srcip is
  not null group by srcip order by totalnum desc
```

Dataset Name	Description	Log Category
drilldown-Top-Attack-List	Drilldown top attack list	attack

```
select
  from_itime(itime) as timestamp,
  attack,
  srcip,
  dstip
from
  ###(select itime, attack, srcip, dstip from $log where $filter-exclude-var order by
    itime desc)### t where $filter-drilldown order by itime desc
```

Dataset Name	Description	Log Category
drilldown-Top-Virus	UTM top virus	virus

```
select
  virus,
  max(virusid) as virusid,
  (
    case when virus like 'Riskware%' then 'Spyware' when virus like 'Adware%' then
      'Adware' else 'Virus' end
  ) as malware_type,
  sum(totalnum) as totalnum
from
  (
    ###(select virus, 0 as virusid, count(*) as totalnum from $log-traffic where $filter
      and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and virus is
      not null group by virus, virusid order by totalnum desc)### union all ###(select
      virus, virusid, count(*) as totalnum from $log-virus where $filter and
      (eventtype is null or logver>=52) and nullifna(virus) is not null group by
      virus, virusid order by totalnum desc)###) t group by virus, malware_type order
      by totalnum desc
```

Dataset Name	Description	Log Category
drilldown-Virus-Detail	Drilldown virus detail	traffic

```
select
  from_itime(itime) as timestamp,
  virus,
  user_src,
  dstip,
  hostname,
  recipient
from
  (
    ###(select itime, virus, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
      (`srcip`)) as user_src, dstip, hostname, recipient from $log-traffic where
      $filter and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and
      virus is not null order by itime desc)### union all ###(select itime, virus,
      coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, dstip, cast(' ' as char)
      as hostname, cast(' ' as char) as recipient from $log-virus where $filter and
```

```
(eventtype is null or logver>=52) and nullifna(virus) is not null order by itime desc)###) t where $filter-drilldown order by itime desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Blocked-Web-Sites-By-Requests	User drilldown top blocked web sites by requests	webfilter

```
select
  hostname,
  sum(requests) as requests
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, hostname, action,
    count(*) as requests from $log where $filter and hostname is not null group by
    user_src, hostname, action order by requests desc)### t where $filter-drilldown and
    action='blocked' group by hostname order by requests desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Allowed-Web-Sites-By-Requests	User drilldown top allowed web sites by requests	webfilter

```
select
  hostname,
  sum(requests) as requests
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, hostname, action,
    count(*) as requests from $log where $filter and hostname is not null group by
    user_src, hostname, action order by requests desc)### t where $filter-drilldown and
    action!='blocked' group by hostname order by requests desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Blocked-Web-Categories	User drilldown top blocked web categories	webfilter

```
select
  catdesc,
  sum(requests) as requests
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, catdesc, action,
    count(*) as requests from $log where $filter and catdesc is not null group by user_
    src, catdesc, action order by requests desc)### t where $filter-drilldown and
    action='blocked' group by catdesc order by requests desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Allowed-Web-Categories	User drilldown top allowed web categories	webfilter

```
select
  catdesc,
  sum(requests) as requests
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, catdesc, action,
    count(*) as requests from $log where $filter and catdesc is not null group by user_
```

```
src, catdesc, action order by requests desc)### t where $filter-drilldown and
action!='blocked' group by catdesc order by requests desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Attacks	User drilldown top attacks by name	attack

```
select
  attack,
  sum(attack_count) as attack_count
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, attack, (case when
  severity in ('critical', 'high') then 1 else 0 end) as high_severity, count(*) as
  attack_count from $log where $filter and nullifna(attack) is not null group by
  user_src, attack, high_severity order by attack_count desc)### t where $filter-
  drilldown group by attack order by attack_count desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Attacks-High-Sever- ity	User drilldown top attacks high severity	attack

```
select
  attack,
  sum(attack_count) as attack_count
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, attack, (case when
  severity in ('critical', 'high') then 1 else 0 end) as high_severity, count(*) as
  attack_count from $log where $filter and nullifna(attack) is not null group by
  user_src, attack, high_severity order by attack_count desc)### t where $filter-
  drilldown and high_severity=1 group by attack order by attack_count desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Virus-By-Name	User drilldown top virus	virus

```
select
  virus,
  max(virusid) as virusid,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, virus, virusid,
  count(*) as totalnum from $log where $filter and nullifna(virus) is not null group
  by user_src, virus, virusid order by totalnum desc)### t where $filter-drilldown
  group by virus order by totalnum desc
```

Dataset Name	Description	Log Category
user-drilldown-Top-Virus-Receivers- Over-Email	User drilldown top virus receivers over email	virus

```
select
  receiver,
  sum(totalnum) as totalnum
from
  ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, `to` as receiver,
  count(*) as totalnum from $log where $filter and subtype='infected' and (service in
```

```
('smtp', 'SMTP', '25/tcp', '587/tcp', 'smtps', 'SMTPS', '465/tcp') or service in
('pop3', 'POP3', '110/tcp', 'imap', 'IMAP', '143/tcp', 'imaps', 'IMAPS', '993/tcp',
'pop3s', 'POP3S', '995/tcp')) and nullifna(virus) is not null group by user_src,
receiver order by totalnum desc)### t where $filter-drilldown group by receiver
order by totalnum desc
```

Dataset Name	Description	Log Category
user-drilldown-Count-Spam-Activity-by-Hour-of-Day	User drilldown count spam activity by hour of day	emailfilter

```
select
    hourstamp,
    sum(totalnum) as totalnum
from
    ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, $hour_of_day as
        hourstamp, count(*) as totalnum from $log where $filter and `to` is not null and
        action in ('detected', 'blocked') group by user_src, hourstamp order by
        hourstamp)### t where $filter-drilldown group by hourstamp order by hourstamp
```

Dataset Name	Description	Log Category
user-drilldown-Top-Spam-Sources	User drilldown top spam sources	emailfilter

```
select
    mf_sender,
    sum(totalnum) as totalnum
from
    ###(select coalesce(nullifna(`user`), ipstr(`srcip`)) as user_src, `from` as mf_sender,
        count(*) as totalnum from $log where $filter and `from` is not null and action in
        ('detected', 'blocked') group by user_src, mf_sender order by totalnum desc)### t
    where $filter-drilldown group by mf_sender order by totalnum desc
```

Dataset Name	Description	Log Category
event-Usage-CPU	Event usage CPU	event

```
select
    hourstamp,
    cast(
        sum(cpu_usage) / sum(num) as decimal(6, 2)
    ) as cpu_avg_usage
from
    ###(select $hour_of_day as hourstamp, sum(cpu) as cpu_usage, count(*) as num from $log
        where $filter and subtype='system' and action='perf-stats' group by hourstamp)### t
    group by hourstamp order by hourstamp
```

Dataset Name	Description	Log Category
event-Usage-Memory	Event usage memory	event

```
select
    hourstamp,
    cast(
        sum(mem_usage) / sum(num) as decimal(6, 2)
    ) as mem_avg_usage
from
```

```
###(select $hour_of_day as hourstamp, sum(mem) as mem_usage, count(*) as num from $log
where $filter and subtype='system' and action='perf-stats' group by hourstamp)### t
group by hourstamp order by hourstamp
```

Dataset Name	Description	Log Category
event-Usage-Sessions	Event usage sessions	event

```
select
  hourstamp,
  cast(
    sum(sess_usage)/ sum(num) as decimal(10, 2)
  ) as sess_avg_usage
from
  ###(select $hour_of_day as hourstamp, sum(totalsession) as sess_usage, count(*) as num
  from $log where $filter and subtype='system' and action='perf-stats' group by
  hourstamp)### t group by hourstamp order by hourstamp
```

Dataset Name	Description	Log Category
event-Usage-CPU-Sessions	Event usage CPU sessions	event

```
select
  hourstamp,
  cast(
    sum(sess_usage)/ sum(num) as decimal(10, 2)
  ) as sess_avg_usage,
  cast(
    sum(cpu_usage)/ sum(num) as decimal(6, 2)
  ) as cpu_avg_usage
from
  ###(select $hour_of_day as hourstamp, sum(cpu) as cpu_usage, sum(totalsession) as sess_
  usage, count(*) as num from $log where $filter and subtype='system' and
  action='perf-stats' group by hourstamp)### t group by hourstamp order by hourstamp
```

Dataset Name	Description	Log Category
App-Risk-Top-Users-By-Bandwidth	Top users by bandwidth usage	traffic

```
select
  coalesce(
    nullifna(`user`),
    nullifna(`unauthuser`),
    ipstr(`srcip`)
  ) as user_src,
  srcip,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  sum(
    coalesce(rcvdbyte, 0)
  ) as traffic_in,
  sum(
    coalesce(sentbyte, 0)
  ) as traffic_out
from
  $log
```

```

where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and srcip is not null
group by
    user_src,
    srcip
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
App-Risk-Top-User-Source-By-Sessions	Application risk top user source by session count	traffic

```

select
    srcip,
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    count(*) as sessions
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and srcip is not null
group by
    srcip,
    user_src
order by
    sessions desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Users-By-Reputation-Scores-Bar	Application risk reputation top users by scores	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    sum(crscore % 65536) as scores
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and crscore is not null

```

```

group by
    user_src
having
    sum(crsscore % 65536) > 0
order by
    scores desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Devices-By-Reputation-Scores	Application risk reputation top devices by scores	traffic

```

select
    devtype,
    coalesce(
        nullifna(`srcname`),
        nullifna(`srcmac`),
        ipstr(`srcip`)
    ) as dev_src,
    sum(crsscore % 65536) as scores
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and crsscore is not null
group by
    devtype,
    dev_src
having
    sum(crsscore % 65536) > 0
order by
    scores desc

```

Dataset Name	Description	Log Category
App-Risk-Application-Usage-By-Cat-egory-With-Pie	Application risk application usage by category	traffic

```

select
    appcat,
    sum(
        coalesce(sentbyte, 0) + coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and nullifna(appcat) is not null
group by
    appcat
order by
    bandwidth desc

```

Dataset Name	Description	Log Category
App-Risk-App-Usage-by-Category	Application risk application usage by category	traffic

```

select
  appcat,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(appcat) is not null
group by
  appcat
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
Top-20-Categories-By-Bandwidth	Webfilter categories by bandwidth usage	webfilter

```

select
  catdesc,
  sum(bandwidth) as bandwidth
from
  ###(select catdesc, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from
    $log-traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and
    ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter',
    'banned-word', 'web-content', 'command-block', 'script-filter')) and catdesc is
    not null group by catdesc order by bandwidth desc)### t group by catdesc order by
    bandwidth desc

```

Dataset Name	Description	Log Category
App-Risk-Key-Applications-Crossing-The-Network	Application risk application activity	traffic

```

select
  app_group_name(app) as app_group,
  appcat,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  count(*) as num_session
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(app) is not null
group by
  app_group,
  appcat

```



```
order by
    bandwidth desc
```

Dataset Name	Description	Log Category
App-Risk-Applications-Running-Over-HTTP	Application risk applications running over HTTP	traffic

```
select
    app_group_name(app) as app_group,
    service,
    count(*) as sessions,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and nullifna(app) is not null
    and service in (
        '80/tcp', '443/tcp', 'HTTP', 'HTTPS',
        'http', 'https'
    )
group by
    app_group,
    service
having
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    )> 0
order by
    bandwidth desc
```

Dataset Name	Description	Log Category
App-Risk-Top-Web-Sites-Visited-By-Net-work-Users-Pie-Cha	Application risk web browsing summary category	traffic

```
select
    catdesc,
    sum(num_sess) as num_sess,
    sum(bandwidth) as bandwidth
from
    ###(select catdesc, count(*) as num_sess, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')) and catdesc is not null group by catdesc order by num_sess desc)### t group by catdesc order by num_sess desc
```

Dataset Name	Description	Log Category
App-Risk-Top-Web-Sites-Visited-By-Net-work-Users	Application risk web browsing summary category	traffic

```

select
    catdesc,
    sum(num_sess) as num_sess,
    sum(bandwidth) as bandwidth
from
    ###(select catdesc, count(*) as num_sess, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth from $log-traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver is null) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter')))) and catdesc is not null group by catdesc order by num_sess desc)### t group by catdesc order by num_sess desc

```

Dataset Name	Description	Log Category
App-Risk-Web-Browsing-Hostname-Category	Application risk web browsing activity hostname category	traffic

```

select
    domain,
    catdesc,
    sum(visits) as visits
from
    (
        ###(select coalesce(nullifna(hostname), ipstr(`dstip`)) as domain, catdesc, count(*) as visits from $log-traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block', 'script-filter') and catdesc is not null group by domain, catdesc order by visits desc)### union all ###(select coalesce(nullifna(hostname), ipstr(`dstip`)) as domain, catdesc, count(*) as visits from $log-webfilter where $filter and (eventtype is null or logver>=52) and catdesc is not null group by domain, catdesc order by visits desc)###) t group by domain, catdesc order by visits desc

```

Dataset Name	Description	Log Category
Top-Destination-Countries-By-Browsing-Time	Traffic top destination countries by browsing time	traffic

```

select
    dstcountry,
    sum(delta) as browsetime,
    sum(bandwidth) as bandwidth,
    sum(traffic_in) as traffic_in,
    sum(traffic_out) as traffic_out
from
    ###(select dstcountry, sum($browse_time) as delta, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum(coalesce(sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int(logid) not in (4, 7, 14) group by dstcountry having sum($browse_time)>0 order by delta desc)### t group by dstcountry order by browsetime desc

```

Dataset Name	Description	Log Category
Top-Destination-Countries-By-Browsing-Time-Enhanced	Traffic top destination countries by browsing time enhanced	traffic

```

select
    dstcountry,

```

```

sum(delta) as browsetime,
sum(bandwidth) as bandwidth,
sum(traffic_in) as traffic_in,
sum(traffic_out) as traffic_out
from
###(select dstcountry, sum($browse_time2) as delta, sum(coalesce(sentbyte, 0)+coalesce
(rcvdbyte, 0)) as bandwidth, sum(coalesce(rcvdbyte, 0)) as traffic_in, sum(coalesce
(sentbyte, 0)) as traffic_out from $log where $filter and logid_to_int(logid) not
in (4, 7, 14) group by dstcountry having sum($browse_time2)>0 order by delta
desc)### t group by dstcountry order by browsetime desc

```

Dataset Name	Description	Log Category
App-Risk-Traffic-Top-Hostnames-By-Browsing-Time	Traffic top domains by browsing time	traffic

```

select
hostname,
sum($browse_time) as browsetime,
sum(
coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
) as bandwidth,
sum(
coalesce(rcvdbyte, 0)
) as traffic_in,
sum(
coalesce(sentbyte, 0)
) as traffic_out
from
$log
where
$filter
and logid_to_int(logid) not in (4, 7, 14)
and hostname is not null
group by
hostname
having
sum($browse_time)> 0
order by
browsetime desc

```

Dataset Name	Description	Log Category
App-Risk-Traffic-Top-Hostnames-By-Browsing-Time-Enhanced	Traffic top domains by browsing time enhanced	traffic

```

select
hostname,
sum($browse_time2) as browsetime,
sum(
coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
) as bandwidth,
sum(
coalesce(rcvdbyte, 0)
) as traffic_in,
sum(
coalesce(sentbyte, 0)

```

```

    ) as traffic_out
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and hostname is not null
group by
    hostname
having
    sum($browse_time2) > 0
order by
    browsetime desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Threat-Vectors-Crossing-The-Network	Application risk top threat vectors	attack

```

select
    severity,
    count(*) as totalnum
from
    $log
where
    $filter
group by
    severity
order by
    totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Critical-Threat-Vectors-Crossing-The-Network	Application risk top critical threat vectors	attack

```

select
    attack,
    severity,
    ref,
    count(*) as totalnum
from
    $log
where
    $filter
    and severity = 'critical'
    and nullifna(attack) is not null
group by
    attack,
    severity,
    ref
order by
    totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-High-Threat-Vectors-Crossing-The-Network	Application risk top high threat vectors	attack

```

select
    attack,
    severity,
    ref,
    count(*) as totalnum
from
    $log
where
    $filter
    and severity = 'high'
    and nullifna(attack) is not null
group by
    attack,
    severity,
    ref
order by
    totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Medium-Threat-Vectors-Crossing-The-Network	Application risk top medium threat vectors	attack

```

select
    attack,
    severity,
    ref,
    count(*) as totalnum
from
    $log
where
    $filter
    and severity = 'medium'
    and nullifna(attack) is not null
group by
    attack,
    severity,
    ref
order by
    totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Low-Threat-Vectors-Crossing-The-Network	Application risk top low threat vectors	attack

```

select
    attack,
    severity,
    ref,
    count(*) as totalnum

```

```

from
    $log
where
    $filter
    and severity = 'low'
    and nullifna(attack) is not null
group by
    attack,
    severity,
    ref
order by
    totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Info-Threat-Vectors-Crossing-The-Network	Application risk top info threat vectors	attack

```

select
    attack,
    severity,
    ref,
    count(*) as totalnum
from
    $log
where
    $filter
    and severity = 'info'
    and nullifna(attack) is not null
group by
    attack,
    severity,
    ref
order by
    totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Virus-By-Name	UTM top virus	virus

```

select
    virus,
    max(virusid) as virusid,
    (
        case when virus like 'Riskware%' then 'Spyware' when virus like 'Adware%' then
            'Adware' else 'Virus' end
    ) as malware_type,
    sum(totalnum) as totalnum
from
    (
        ###(select virus, 0 as virusid, count(*) as totalnum from $log-traffic where $filter
            and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and virus is
            not null group by virus, virusid order by totalnum desc)### union all ###(select
            virus, virusid, count(*) as totalnum from $log-virus where $filter and
            (eventtype is null or logver>=52) and nullifna(virus) is not null group by
            virus, virusid order by totalnum desc)###) t group by virus, malware_type order
            by totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Top-Virus-Victim	UTM top virus user	traffic

```

select
  user_src,
  sum(totalnum) as totalnum
from
  (
    ###(select coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`)) as
      user_src, count(*) as totalnum from $log-traffic where $filter and logid_to_int
      (logid) not in (4, 7, 14) and utmevent is not null and virus is not null group
      by user_src order by totalnum desc)### union all ###(select coalesce(nullifna
      (`user`), ipstr(`srcip`)) as user_src, count(*) as totalnum from $log-virus
      where $filter and (eventtype is null or logver>=52) and nullifna(virus) is not
      null group by user_src order by totalnum desc)###) t group by user_src order by
      totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Data-Loss-Prevention-Type-Events	Application risk DLP UTM event	traffic

```

select
  utmsubtype,
  sum(number) as number
from
  (
    ###(select utmsubtype, count(*) as number from $log-traffic where $filter and logid_
      to_int(logid) not in (4, 7, 14) and utmevent='dlp' and utmsubtype is not null
      group by utmsubtype order by number desc)### union all ###(select subtype as
      utmsubtype, count(*) as number from $log-dlp where $filter and subtype is not
      null group by subtype order by number desc)###) t group by utmsubtype order by
      number desc

```

Dataset Name	Description	Log Category
App-Risk-Vulnerability-Discovered	Application risk vulnerability discovered	netscan

```

select
  vuln,
  vulnref as ref,
  vulncat,
  severity,
  count(*) as totalnum
from
  $log
where
  $filter
  and vuln is not null
group by
  vuln,
  vulnref,
  vulncat,
  severity
order by
  totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Malware-Discovered	Application risk virus discovered	traffic

```

select
    dom,
    sum(totalnum) as totalnum
from
    (
        ###(select $DAY_OF_MONTH as dom, count(*) as totalnum from $log-traffic where
            $filter and logid_to_int(logid) not in (4, 7, 14) and utmevent is not null and
            virus is not null group by dom order by totalnum desc)### union all ###(select
            $DAY_OF_MONTH as dom, count(*) as totalnum from $log-virus where $filter and
            nullifna(virus) is not null and (eventtype is null or logver>=52) group by dom
            order by totalnum desc)###) t group by dom order by totalnum desc

```

Dataset Name	Description	Log Category
App-Risk-Breakdown-Of-Risk-Applications	Application risk breakdown of risk applications	traffic

```

select
    d_behavior,
    count(*) as number
from
    $log t1
    inner join app_mdata t2 on t1.appid = t2.id
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and d_risk > 0
group by
    d_behavior
order by
    number desc

```

Dataset Name	Description	Log Category
App-Risk-Number-Of-Applications-By-Risk-Behavior	Application risk number of applications by risk behavior	traffic

```

select
    d_risk,
    coalesce(
        d_behavior, 'Other Applications'
    ) as f_behavior,
    count(*) as number
from
    $log t1
    inner join app_mdata t2 on t1.appid = t2.id
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    d_risk,
    d_behavior

```



```

order by
  d_risk desc,
  number desc

```

Dataset Name	Description	Log Category
App-Risk-High-Risk-Application	Application risk high risk application	traffic

```

select
  d_risk,
  d_behavior,
  t2.id,
  t2.name,
  t2.app_cat,
  t2.technology,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth,
  count(*) as sessions
from
  $log t1
  inner join app_mdata t2 on t1.appid = t2.id
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and d_behavior is not null
group by
  t2.id
order by
  d_risk desc,
  sessions desc

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Severe-High-Risk-Application	Severe and high risk applications	traffic

```

select
  appcat,
  count(distinct app) as total_num
from
  ###(select appcat, app from $log where $filter and app is not null and appcat is not
    null and logid_to_int(logid) not in (4, 7, 14) and apprisk in ('critical', 'high')
    group by appcat, app)### t group by appcat order by total_num desc

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Threats-Prevention	Threat Prevention	traffic

```

select
  threat_name,
  sum(total_num) as total_num
from
  (
    ###(select cast('Malware & Botnet C&C' as char(32)) as threat_name, count(*) as
      total_num from $log-app-ctrl where $filter and lower(appcat)='botnet')### union
    all ###(select cast('Malware & Botnet C&C' as char(32)) as threat_name, count(*)

```

```
as total_num from $log-virus where $filter and nullifna(virus) is not null)###
union all ###(select cast('Malicious & Phishing Sites' as char(32)) as threat_
name, count(*) as total_num from $log-webfilter where $filter and cat in (26,
61)### union all ###(select cast('Critical & High Intrusion Attacks' as char
(32)) as threat_name, count(*) as total_num from $log-attack where $filter and
severity in ('critical', 'high'))###) t group by threat_name having sum(total_
num) > 0 order by total_num desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Application-Vulnerability	Application vulnerabilities discovered	attack

```
select
  attack,
  attackid,
  vuln_type,
  severity_number,
  count(distinct dstip) as victims,
  count(distinct srcip) as sources,
  sum(totalnum) as totalnum
from
  ###(select attack, attackid, vuln_type, (case when t1.severity='critical' then 5 when
  t1.severity='high' then 4 when t1.severity='medium' then 3 when t1.severity='low'
  then 2 when t1.severity='info' then 1 else 0 end) as severity_number, dstip, srcip,
  count(*) as totalnum from $log t1 left join ips_mdata t2 on t1.attack=t2.name where
  $filter and nullifna(attack) is not null and t1.severity is not null group by
  attack, attackid, vuln_type, t1.severity, dstip, srcip )### t group by attack,
  attackid, vuln_type, severity_number order by severity_number desc, totalnum desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Breakdown-Of-High-Risk-Application	Severe and high risk applications	traffic

```
select
  appcat,
  count(distinct app) as total_num
from
  ###(select appcat, app from $log where $filter and app is not null and appcat is not
  null and logid_to_int(logid) not in (4, 7, 14) and apprisk in ('critical', 'high')
  group by appcat, app)### t group by appcat order by total_num desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Top-20-High-Risk-Application	Application risk high risk application	traffic

```
select
  d_risk,
  count(distinct f_user) as users,
  id,
  name,
  app_cat,
  technology,
  sum(bandwidth) as bandwidth,
  sum(sessions) as sessions
from
```

```

###(select (case apprisk when 'low' then 1 when 'elevated' then 2 when 'medium' then 3
when 'high' then 4 when 'critical' then 5 else 0 end) as d_risk, coalesce(nullifna
(t1.`user`), nullifna(t1.`unauthuser`), ipstr(t1.`srcip`)) as f_user, t2.id ,
t2.name, t2.app_cat, t2.technology, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
0)) as bandwidth, count(*) as sessions from $log t1 inner join app_mdata t2 on
t1.appid=t2.id where $filter and apprisk in ('critical', 'high') and logid_to_int
(logid) not in (4, 7, 14) group by f_user, t2.id , t2.name, t2.app_cat,
t2.technology, apprisk)### t group by id, d_risk, name, app_cat, technology order
by d_risk desc, sessions desc

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-High-Risk-Application-Behavioral	Application Behavioral Characteristics	traffic

```

select
  behavior,
  round(
    sum(total_num)* 100 / sum(
      sum(total_num)
    ) over (),
    2
  ) as percentage
from
  ###(select (case when lower(appcat)='botnet' then 'malicious' when lower
  (appcat)='remote.access' then 'tunneling' when lower(appcat) in ('storage.backup',
  'video/audio') then 'bandwidth-consuming' when lower(appcat)='p2p' then 'peer-to-
  peer' when lower(appcat)='proxy' then 'proxy' end) as behavior, count(*) as total_
  num from $log where $filter and lower(appcat) in ('botnet', 'remote.access',
  'storage.backup', 'video/audio', 'p2p', 'proxy') and logid_to_int(logid) not in (4,
  7, 14) and apprisk in ('critical', 'high') group by appcat)### t group by behavior
  order by percentage desc

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Key-Application-Crossing-The-Network	Key Application Crossing The Network	traffic

```

select
  d_risk,
  count(distinct f_user) as users,
  id,
  name,
  app_cat,
  technology,
  sum(bandwidth) as bandwidth,
  sum(sessions) as sessions
from
  ###(select (case apprisk when 'low' then 1 when 'elevated' then 2 when 'medium' then 3
  when 'high' then 4 when 'critical' then 5 else 0 end) as d_risk, coalesce(nullifna
  (t1.`user`), nullifna(t1.`unauthuser`), ipstr(t1.`srcip`)) as f_user, t2.id,
  t2.name, t2.app_cat, t2.technology, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte,
  0)) as bandwidth, count(*) as sessions from $log t1 inner join app_mdata t2 on
  t1.appid=t2.id where $filter and logid_to_int(logid) not in (4, 7, 14) group by f_
  user, t2.id, t2.name, t2.app_cat, t2.technology, apprisk )### t group by id, name,
  app_cat, technology, d_risk order by bandwidth desc

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Risk-Application-Usage-By-Category-With-Pie	Application risk application usage by category	traffic

```

select
  appcat,
  sum(
    coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
  ) as bandwidth
from
  $log
where
  $filter
  and logid_to_int(logid) not in (4, 7, 14)
  and nullifna(appcat) is not null
group by
  appcat
order by
  bandwidth desc

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Category-Breakdown-By-Bandwidth	Category breakdown of all applications, sorted by bandwidth	traffic

```

select
  appcat,
  count(distinct appid) as app_num,
  count(distinct f_user) as user_num,
  sum(bandwidth) as bandwidth,
  sum(num_session) as num_session
from
  ###(select appcat, appid, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr
    (`srcip`)) as f_user, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as
    bandwidth, count(*) as num_session from $log where $filter and logid_to_int(logid)
    not in (4, 7, 14) and nullifna(appcat) is not null group by appcat, appid, f_
    user)### t group by appcat order by bandwidth desc

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Top-Web-Applications-by-Bandwidth	Top 25 Web Categories by Bandwidth	traffic

```

select
  d_risk,
  id,
  name,
  technology,
  count(distinct f_user) as user_num,
  sum(bandwidth) as bandwidth,
  sum(num_session) as num_session
from
  ###(select (case apprisk when 'low' then 1 when 'elevated' then 2 when 'medium' then 3
    when 'high' then 4 when 'critical' then 5 else 0 end) as d_risk, t2.id, t2.name,
    t2.technology, coalesce(nullifna(t1.`user`), nullifna(t1.`unauthuser`), ipstr

```

```
(t1.`srcip`)) as f_user, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0)) as
bandwidth, count(*) as num_session from $log t1 inner join app_mdata t2 on
t1.appid=t2.id where $filter and logid_to_int(logid) not in (4, 7, 14) and nullifna
(app) is not null and service in ('80/tcp', '443/tcp', 'HTTP', 'HTTPS', 'http',
'https') group by apprisk, t2.id, t2.name, t2.technology, f_user)### t group by d_
risk, id, name, technology order by bandwidth desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Top-Web-Categories-Visited	Top 25 Web Categories Visited	traffic

```
select
  catdesc,
  count(distinct f_user) as user_num,
  sum(sessions) as sessions,
  sum(bandwidth) as bandwidth
from
  ###(select catdesc, coalesce(nullifna(`user`), nullifna(`unauthuser`), ipstr(`srcip`))
  as f_user, count(*) as sessions, sum(coalesce(sentbyte, 0)+coalesce(rcvdbyte, 0))
  as bandwidth from $log-traffic where $filter and catdesc is not null and logid_to_
  int(logid) not in (4, 7, 14) and ((logver>=52 and countweb>0) or ((logver is null)
  and utmevent in ('webfilter', 'banned-word', 'web-content', 'command-block',
  'script-filter')))) group by f_user, catdesc order by sessions desc)### t group by
  catdesc order by sessions desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Common-Virus-Botnet-Spyware	Common virus disvocered, the botnet communications and the spyware/adware	traffic

```
select
  virus_s as virus,
  (
    case when lower(appcat)= 'botnet' then 'Botnet C&C' else (
      case when virus_s like 'Riskware%' then 'Spyware' when virus_s like 'Adware%'
        then 'Adware' else 'Virus' end
    ) end
  ) as malware_type,
  appid,
  app,
  count(distinct dstip) as victims,
  count(distinct srcip) as source,
  sum(total_num) as total_num
from
  (
    ###(select app as virus_s, appcat, appid, app, dstip, srcip, count(*) as total_num
    from $log-traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and
    lower(appcat)='botnet' group by virus_s, appcat, appid, dstip, srcip, app order
    by total_num desc)### union all ###(select unnest(string_to_array(virus, ','))
    as virus_s, appcat, appid, app, dstip, srcip, count(*) as total_num from $log-
    traffic where $filter and logid_to_int(logid) not in (4, 7, 14) and virus is not
    null group by virus_s, appcat, appid, dstip, srcip, app order by total_num
    desc)###) t group by virus, appid, app, malware_type order by total_num desc
```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Zero-Day-Detected-On-Net-work	Zero-day malware detected on the network	traffic

```

select
    virus_s,
    appid,
    app,
    count(distinct dstip) as victims,
    count(distinct srcip) as source,
    sum(total_num) as total_num
from
    ###(select unnest(string_to_array(virus, ',')) as virus_s, appid, app, dstip, srcip,
        count(*) as total_num from $log where $filter and logid_to_int(logid) not in (4, 7,
        14) and virus like '%PossibleThreat.SB%' group by virus_s, dstip, srcip, appid, app
    )### t where virus_s like '%PossibleThreat.SB%' group by virus_s, appid, app order
    by total_num desc

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Files-Analyzed-By-FortiCloud-Sandbox	Files analyzed by FortiCloud Sandbox	virus

```

select
    $DAY_OF_MONTH as dom,
    count(*) as total_num
from
    $log
where
    $filter
    and nullifna(filename) is not null
    and logid_to_int(logid)= 9233
group by
    dom
order by
    dom

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-Malicious-Files-Detected-By-FortiCloud-Sandbox	Files detected by FortiCloud Sandbox	virus

```

select
    filename,
    analyticscksum,
    count(distinct dstip) as victims,
    count(distinct srcip) as source
from
    ###(select filename, analyticscksum, dstip, srcip from $log where $filter and filename
        is not null and logid_to_int(logid)=9233 and analyticscksum is not null group by
        filename, analyticscksum, srcip, dstip)### t group by filename, analyticscksum
    order by victims

```

Dataset Name	Description	Log Category
Apprisk-Ctrl-File-Transferred-By-Application	File transferred by applications on the network	app-ctrl

```

select
    appid,
    app,
    filename,
    cloudaction,
    filesize
from
    $log
where
    $filter
    and filesize is not null
    and clouduser is not null
    and filename is not null
group by
    cloudaction,
    appid,
    app,
    filename,
    filesize
order by
    filesize desc

```

Dataset Name	Description	Log Category
appctrl-Top-Blocked-SCCP-Callers	Appctrl top blocked SCCP callers	app-ctrl

```

select
    srcname as caller,
    count(*) as totalnum
from
    $log
where
    $filter
    and lower(appcat)= 'voip'
    and app = 'sccp'
    and action = 'block'
    and srcname is not null
group by
    caller
order by
    totalnum desc

```

Dataset Name	Description	Log Category
appctrl-Top-Blocked-SIP-Callers	Appctrl top blocked SIP callers	app-ctrl

```

select
    srcname as caller,
    count(*) as totalnum
from
    $log

```

```

where
    $filter
    and srcname is not null
    and lower(appcat)= 'voip'
    and app = 'sip'
    and action = 'block'
group by
    caller
order by
    totalnum desc

```

Dataset Name	Description	Log Category
security-Top10-Malware-Virus-Spyware	Malware: viruses, Spyware/Adware	virus

```

select
    virus,
    max(virusid) as virusid,
    malware_type,
    count(distinct dstip) as victims,
    count(distinct srcip) as source,
    sum(total_num) as total_num
from
    ###(select virus, virusid, srcip, dstip, (case when virus like 'Riskware%' then
        'Spyware' when virus like 'Adware%' then 'Adware' else 'Virus' end) as malware_
        type, count(*) as total_num from $log where $filter and nullifna(virus) is not null
        group by virus, virusid, srcip, dstip order by total_num desc)### t group by virus,
        malware_type order by total_num desc

```

Dataset Name	Description	Log Category
security-Top10-Malware-Botnet	Malware: Botnet	appctrl

```

select
    app,
    appid,
    malware_type,
    count(distinct dstip) as victims,
    count(distinct srcip) as source,
    sum(total_num) as total_num
from
    ###(select app, appid, cast('Botnet C&C' as char(32)) as malware_type, srcip, dstip,
        count(*) as total_num from $log where $filter and lower(appcat)='botnet' and
        nullifna(app) is not null group by app, appid, malware_type, srcip, dstip order by
        total_num desc)### t group by app, appid, malware_type order by total_num desc

```

Dataset Name	Description	Log Category
content-Count-Total-SCCP-Call-Registrations-by-Hour-of-Day	Content count total SCCP call registrations by hour of day	content

```

select
    $hour_of_day as hourstamp,
    count(*) as totalnum
from
    $log
where

```



```

$filter
and proto = 'sccp'
and kind = 'register'
group by
    hourstamp
order by
    hourstamp

```

Dataset Name	Description	Log Category
content-Count-Total-SCCP-Calls-Duration-by-Hour-of-Day	Content count total SCCP calls duration by hour of day	content

```

select
    $hour_of_day as hourstamp,
    sum(duration) as sccp_usage
from
    $log
where
    $filter
    and proto = 'sccp'
    and kind = 'call-info'
    and status = 'end'
group by
    hourstamp
order by
    hourstamp

```

Dataset Name	Description	Log Category
content-Count-Total-SCCP-Calls-per-Status	Content count total SCCP calls per status	content

```

select
    status,
    count(*) as totalnum
from
    $log
where
    $filter
    and proto = 'sccp'
    and kind = 'call-info'
group by
    status
order by
    totalnum desc

```

Dataset Name	Description	Log Category
content-Count-Total-SIP-Call-Registrations-by-Hour-of-Day	Content count total SIP call registrations by hour of day	content

```

select
    $hour_of_day as hourstamp,
    count(*) as totalnum
from
    $log

```

```

where
    $filter
    and proto = 'sip'
    and kind = 'register'
group by
    hourstamp
order by
    hourstamp

```

Dataset Name	Description	Log Category
content-Count-Total-SIP-Calls-per-Status	Content count total SIP calls per status	content

```

select
    status,
    count(*) as totalnum
from
    $log
where
    $filter
    and proto = 'sip'
    and kind = 'call'
group by
    status
order by
    totalnum desc

```

Dataset Name	Description	Log Category
content-Dist-Total-SIP-Calls-by-Duration	Content dist total SIP calls by duration	content

```

select
    (
        case when duration < 60 then 'LESS_ONE_MIN' when duration < 600 then 'LESS_TEN_MIN'
            when duration < 3600 then 'LESS_ONE_HOUR' when duration >= 3600 then 'MORE_ONE_
            HOUR' else 'unknown' end
    ) as f_duration,
    count(*) as totalnum
from
    $log
where
    $filter
    and proto = 'sip'
    and kind = 'call'
    and status = 'end'
group by
    f_duration
order by
    totalnum desc

```

Dataset Name	Description	Log Category
Botnet-Activity-By-Sources	Botnet activity by sources	traffic

```

select

```

```

    app,
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    count(*) as events
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and appcat = 'Botnet'
    and nullifna(app) is not null
group by
    app,
    user_src
order by
    events desc

```

Dataset Name	Description	Log Category
Botnet-Infected-Hosts	Botnet infected hosts	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    devtype,
    coalesce(srcname, srcmac) as host_mac,
    count(*) as events
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and appcat = 'Botnet'
group by
    user_src,
    devtype,
    host_mac
order by
    events desc

```

Dataset Name	Description	Log Category
Detected-Botnet	Detected botnet	traffic

```

select
    app,
    count(*) as events
from
    $log
where
    $filter

```

```

        and logid_to_int(logid) not in (4, 7, 14)
        and appcat = 'Botnet'
        and nullifna(app) is not null
    group by
        app
    order by
        events desc

```

Dataset Name	Description	Log Category
Botnet-Sources	Botnet sources	traffic

```

select
    dstip,
    root_domain(hostname) as domain,
    count(*) as events
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and appcat = 'Botnet'
    and dstip is not null
group by
    dstip,
    domain
order by
    events desc

```

Dataset Name	Description	Log Category
Botnet-Victims	Botnet victims	traffic

```

select
    coalesce(
        nullifna(`user`),
        nullifna(`unauthuser`),
        ipstr(`srcip`)
    ) as user_src,
    count(*) as events
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and appcat = 'Botnet'
    and srcip is not null
group by
    user_src
order by
    events desc

```

Dataset Name	Description	Log Category
Botnet-Timeline	Botnet timeline	traffic

```

select

```

```

    $flex_timescale as hodex,
    count(*) as events
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and appcat = 'Botnet'
group by
    hodex
order by
    hodex desc

```

Dataset Name	Description	Log Category
Application-Session-History	Application session history	traffic

```

select
    $flex_timescale as hodex,
    count(*) as counter
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
group by
    hodex
order by
    hodex

```

Dataset Name	Description	Log Category
Application-Usage-List	Detailed application usage	traffic

```

select
    appid,
    app,
    appcat,
    (
        case when (
            utmaction in ('block', 'blocked')
            or action = 'deny'
        ) then 'Blocked' else 'Allowed' end
    ) as custaction,
    sum(
        coalesce(sentbyte, 0)+ coalesce(rcvdbyte, 0)
    ) as bandwidth,
    count(*) as num_session
from
    $log
where
    $filter
    and logid_to_int(logid) not in (4, 7, 14)
    and nullifna(app) is not null
    and policyid != 0
group by
    appid,

```

```
    app,  
    appcat,  
    custaction  
order by  
    bandwidth desc
```

Macro Reference List

The following table lists the available predefined macros that can be used in a report layout to display the log data as text (XML format) dynamically.

Macro Name	Description	Dataset Used	Log Category
Application Category with Highest Session Count	Application category with the highest session count	App-Sessions-By-Category	Traffic
Application with Highest Bandwidth	Application with the highest bandwidth usage	Top-App-By-Bandwidth	Traffic
Application with Highest Session Count	Applications with the highest session count	Top-App-By-Sessions	Traffic
Attack with Highest Session Count	Attack with highest session count	Utm-Top-Attack-Source	Attack
Botnet with Highest Session Count	Botnet with the highest session count	Detected-Botnet	Traffic
Destination with Highest Bandwidth	Destination with the highest bandwidth usage	Top-Destinations-By-Bandwidth	Traffic
Destination with Highest Session Count	Destination with the highest session count	Top-Destinations-By-Sessions	Traffic
Highest Bandwidth Consumed (Application) Category	Highest bandwidth consumed by application category	App-Risk-App-Usage-By-Category	Traffic
Highest Bandwidth Consumed (Application)	Highest bandwidth consumed by application	Top-App-By-Bandwidth	Traffic
Highest Bandwidth Consumed (Destination)	Highest bandwidth consumed by destination	Top-Destinations-By-Bandwidth	Traffic
Highest Bandwidth Consumed (P2P Application)	Highest bandwidth consumed by P2P application	Top-P2P-App-By-Bandwidth	Traffic
Highest Bandwidth Consumed (Source)	Highest bandwidth consumed by source	Top-Users-By-Bandwidth	Traffic
Highest Bandwidth Consumed (Web Category)	Highest bandwidth consumed by website category	Top-Web-Category-by-Bandwidth	Web Filter

Macro Name	Description	Dataset Used	Log Category
Highest Bandwidth Consumed (Website)	Highest bandwidth consumed by website	Top-Web-Sites-by-Bandwidth	Web Filter
Highest Risk Application with Highest Bandwidth	Highest risk application with the highest bandwidth usage	High-Risk-Application-By-Bandwidth	Traffic
Highest Risk Application with Highest Session Count	Highest risk application with the highest session count	High-Risk-Application-By-Sessions	Traffic
Highest Session Count by Application Category	Highest session count by application category	App-Sessions-By-Category	Traffic
Highest Session Count by Application	Highest session count by application	Top-App-By-Sessions	Traffic
Highest Session Count by Attack	Highest session count by attack	Utm-Top-Attack-Source	Attack
Highest Session Count by Botnet	Highest session count by botnet	Detected-Botnet	Traffic
Highest Session Count by Destination	Highest session count by destination	Top-Destinations-By-Sessions	Traffic
Highest Session Count by Highest Severity Attack	Highest session count by highest severity attack	Threat-Attacks-By-Severity	Attack
Highest Session Count by P2P Application	Highest session count by P2P application	Top-P2P-App-By-Sessions	Traffic
Highest Session Count by Source	Highest session count by source	Top-User-Source-By-Sessions	Traffic
Highest Session Count by Virus	Highest session count by virus	Utm-Top-Virus	Traffic
Highest Session Count by Web Category	Highest session count by website category	Top-Web-Category-by-Sessions	Web Filter
Highest Session Count by Website	Highest session count by website	Top-Web-Sites-by-Sessions	Web Filter
Highest Severity Attack with Highest Session Count	Highest severity attack with the highest session count	Threat-Attacks-By-Severity	Attack
P2P Application with Highest Bandwidth	P2P applications with the highest bandwidth usage	Top-P2P-App-By-Bandwidth	Traffic



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